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XRD
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TECHNICAL INSPECTION REPORT CONFIDENTIAL

Classification (Cancelled) (Changed to Security Information)
By Authority of JOINT CHIEFS OF STAFF JCS 1795/36 DATED 15 APRIL 1949
By John H. Doyette Date 23 SEP 1953

366713
U.S. GOVERNMENT PRINTING OFFICE: 1953

U.S.S. SALT LAKE CITY (CA 25)

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TEST ABLE

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VOLUME 2 OF 2

OPERATION CROSSROADS

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Atomic Energy Act 1946

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⑨ BUREAU OF SHIPS GROUP
TECHNICAL INSPECTION REPORT.

⑥ OPERATION CROSSROADS.
U. S. S. SALT LAKE CITY (CA25).
TEST ABLE. VOLUME II [u]. - ⑧

⑪ 1947, ⑫ 141P.

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⑭ XRD-26

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USS SALT LAKE CITY (CA25)

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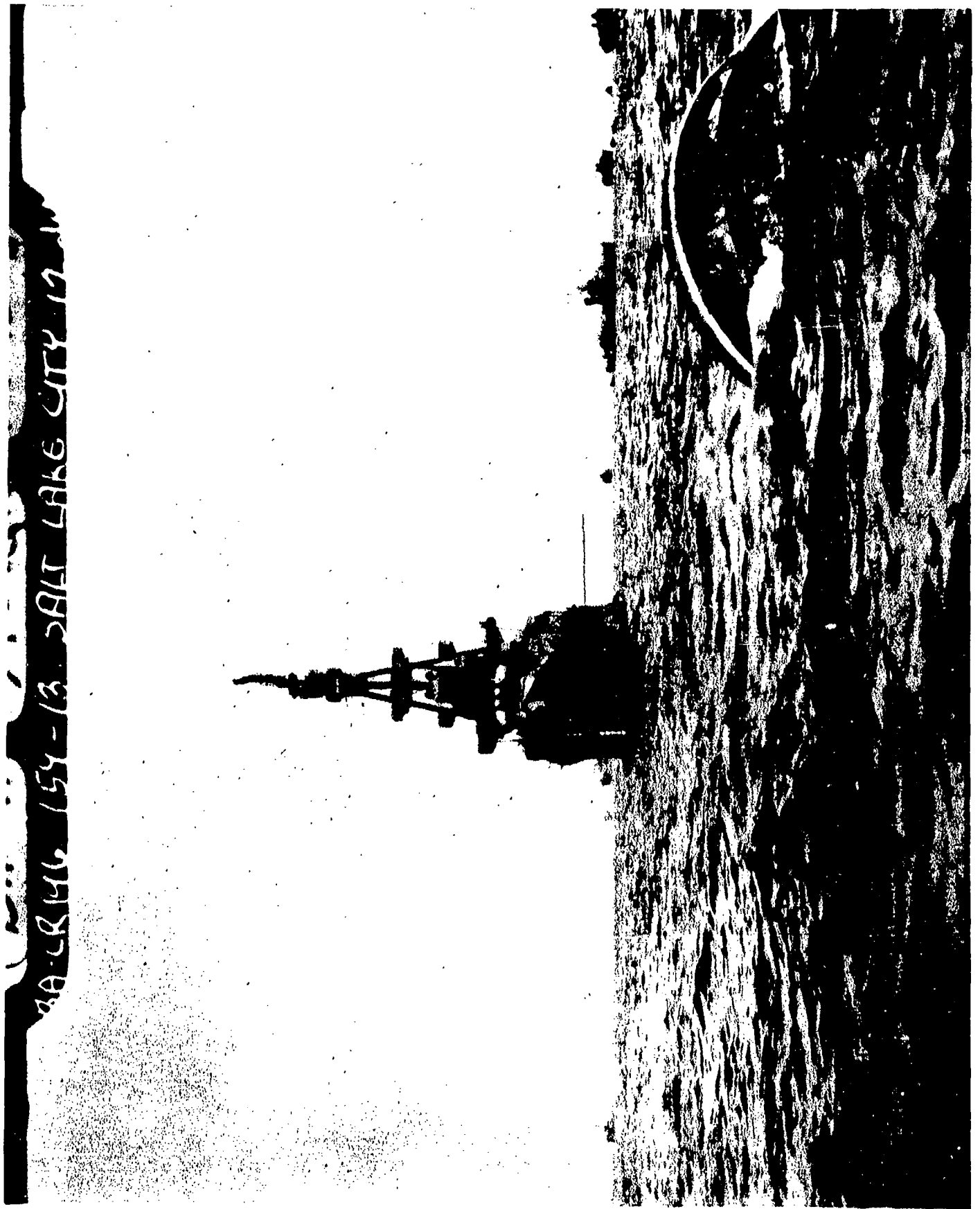
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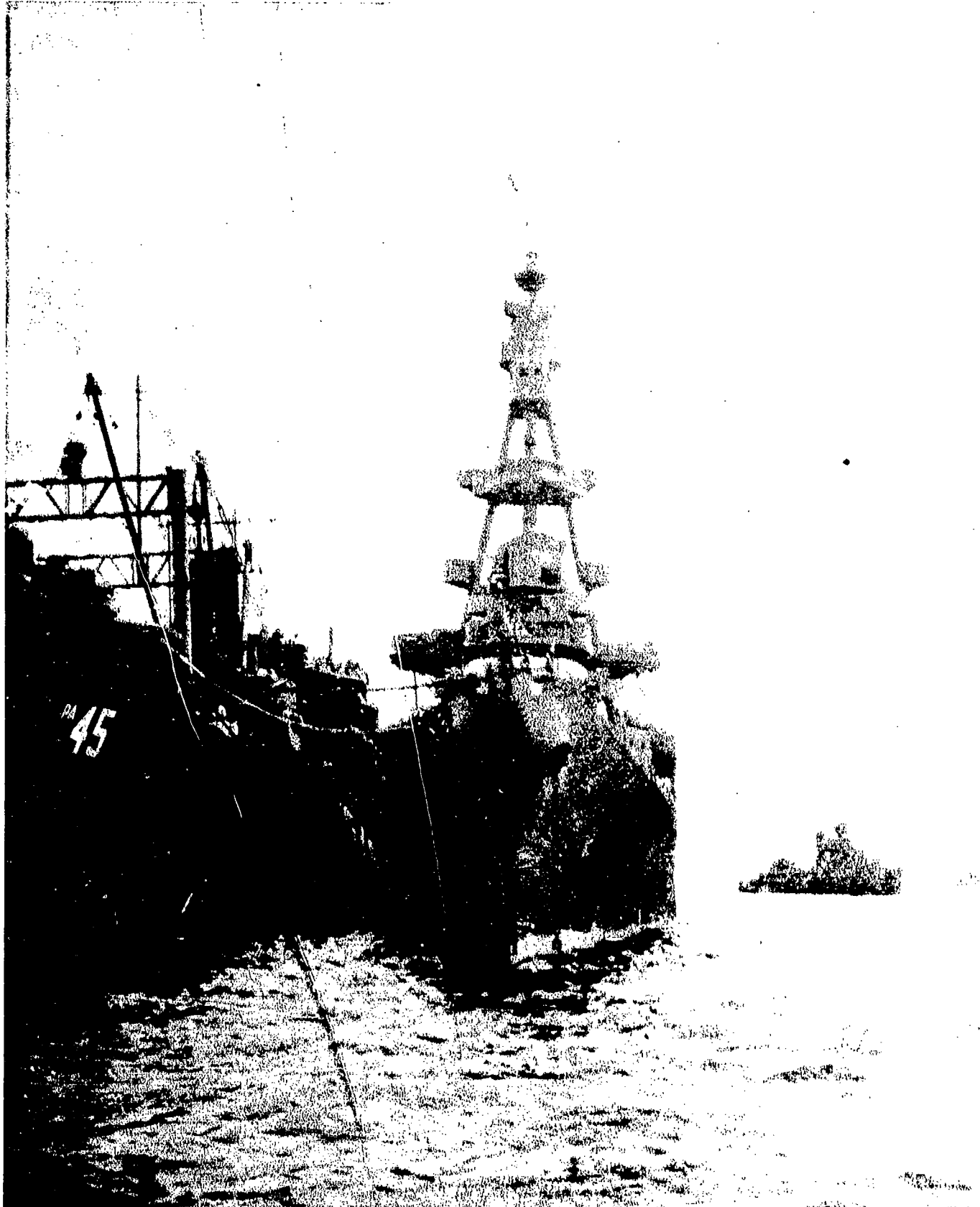
BA-CR-196-159-13. View from dead ahead before Test A.

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AA-CR-227-50-117. View from dead ahead after Test A.

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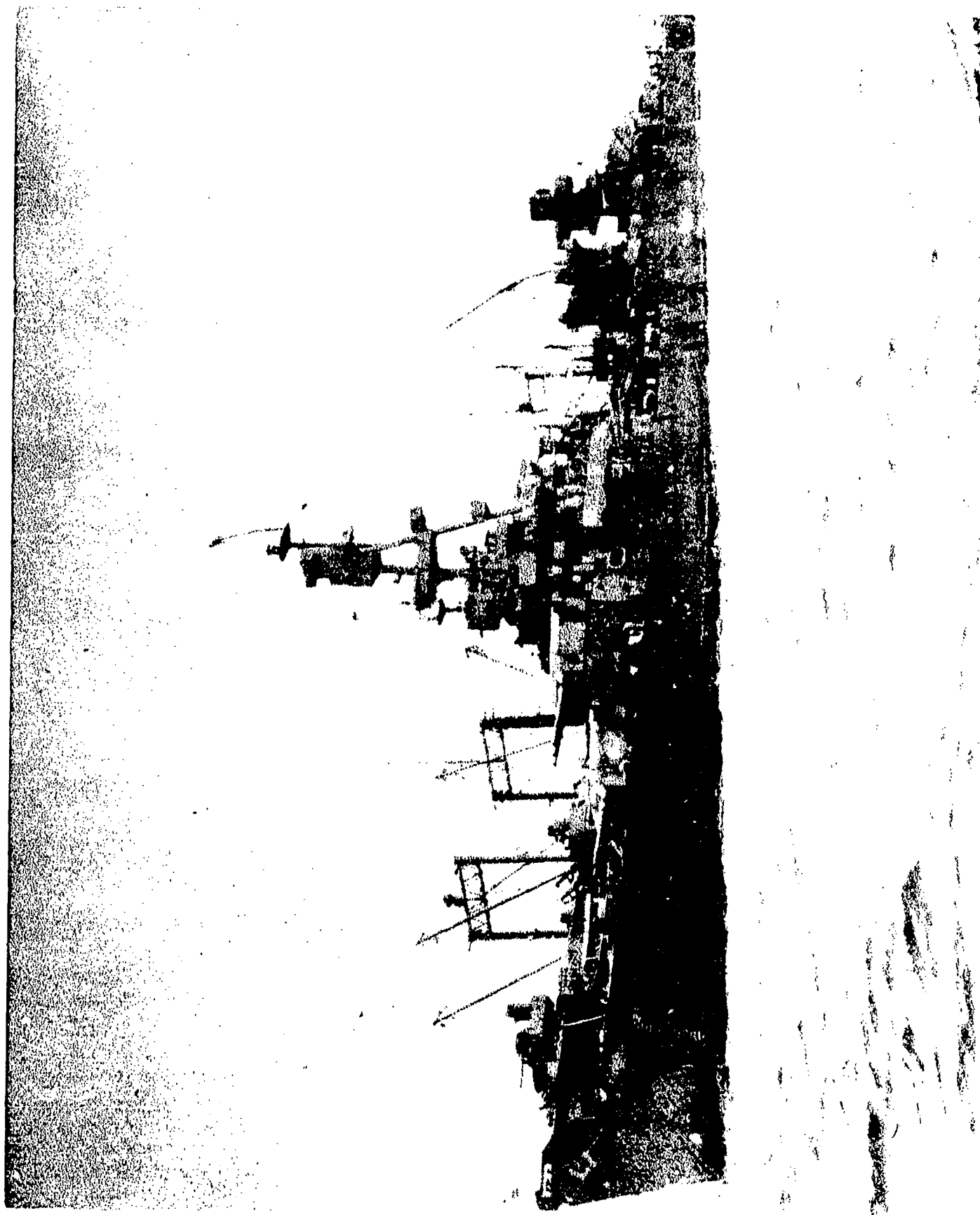
BA-CR-196-159-12. View from off port bow before Test A.

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AA-CR-227-50-116. View from off port bow after Test A.

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BA-CR-196-159-11. View from off port beam before Test A.

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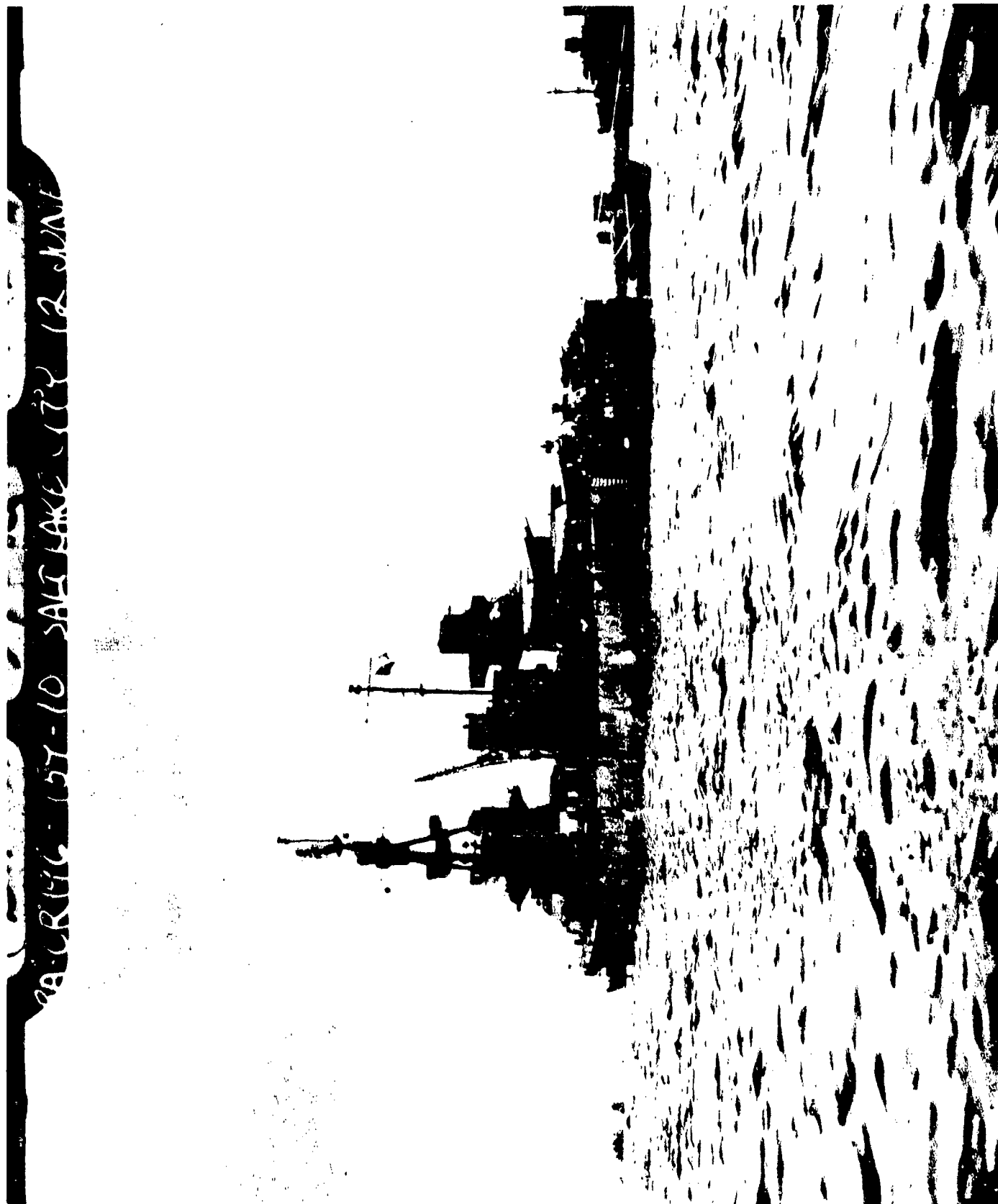
AA-CR-227-50-115. View from off port beam after Test A.

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BA-CR-196-159-10. View from off port quarter before Test A.

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AA-CR-227-50-114. View from off port quarter after Test A.

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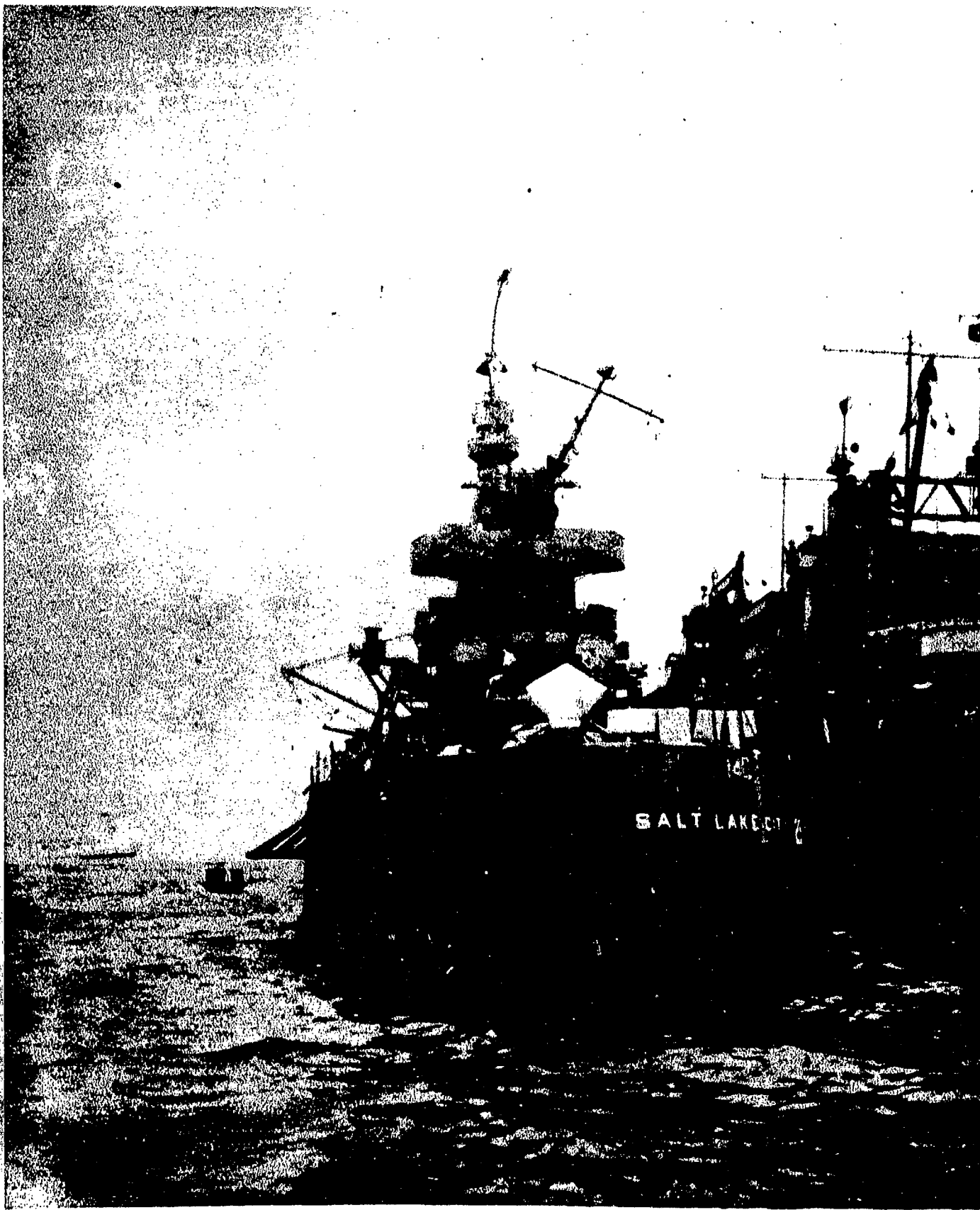
BA-CR-196-159-9. View from dead astern before Test A.

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AA-CR-227-50-113. View from dead astern after Test A.

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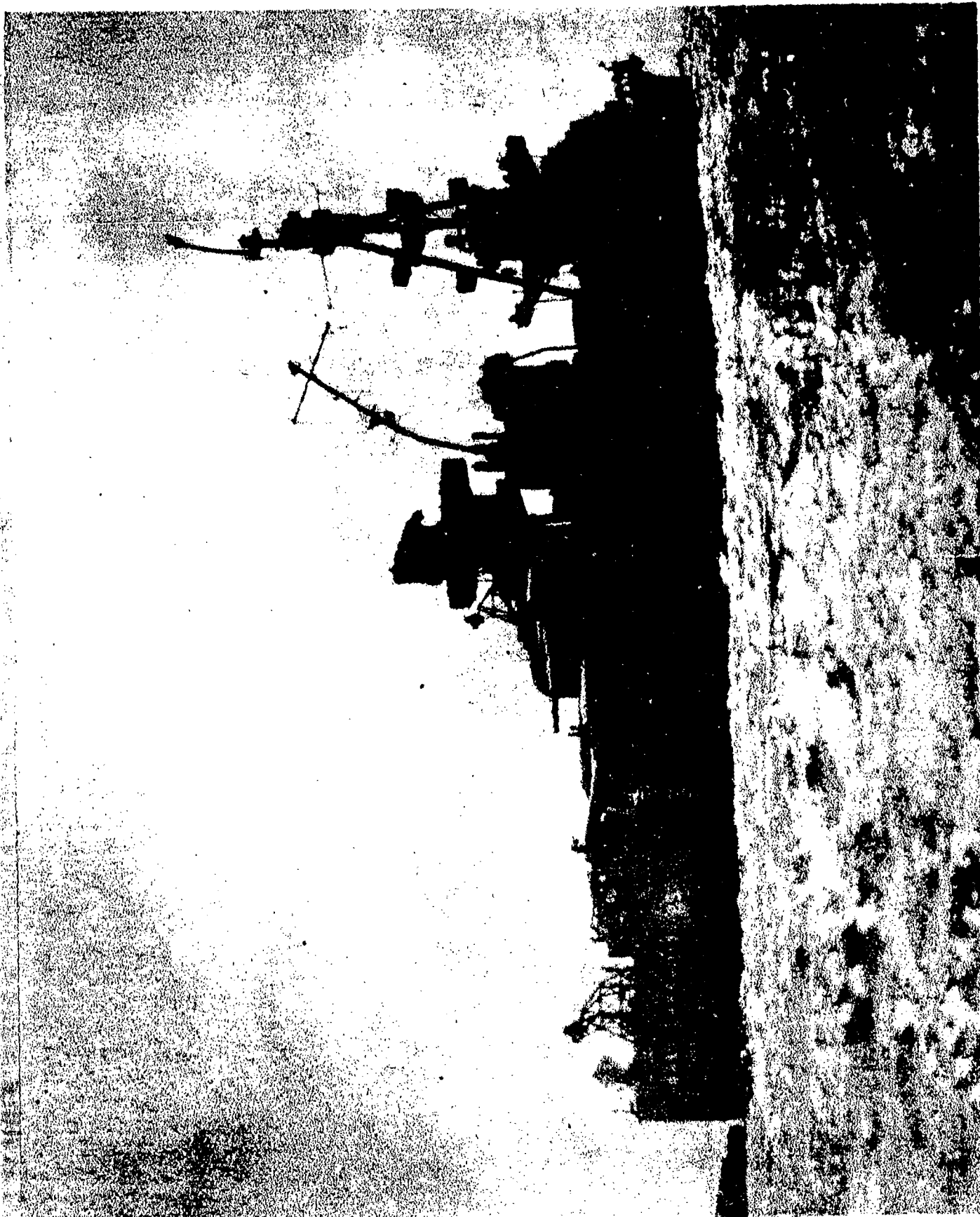
BA-CR-196-159-16. View from off starboard quarter before Test A.

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AA-CR-227-91-46. View from on starboard quarter after Test A.

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BA-CR-196-159-15. View from off starboard beam before Test A.

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AA-CR-227-91-47. View from off starboard beam after Test A.

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BA-CR-196-159-14.. View from off starboard bow before Test A.

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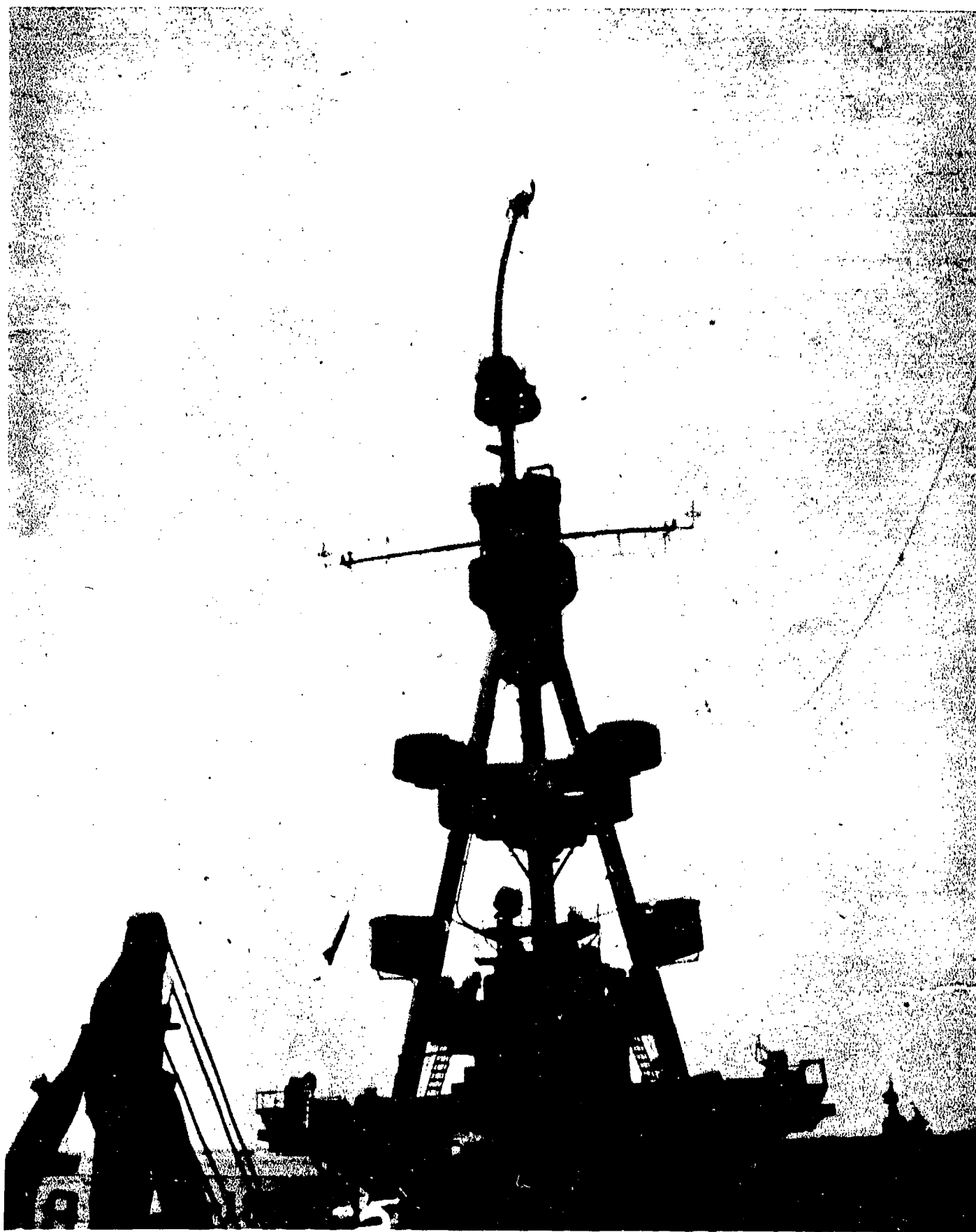
AA-CR-227-91-48. View from off starboard bow after Test A.

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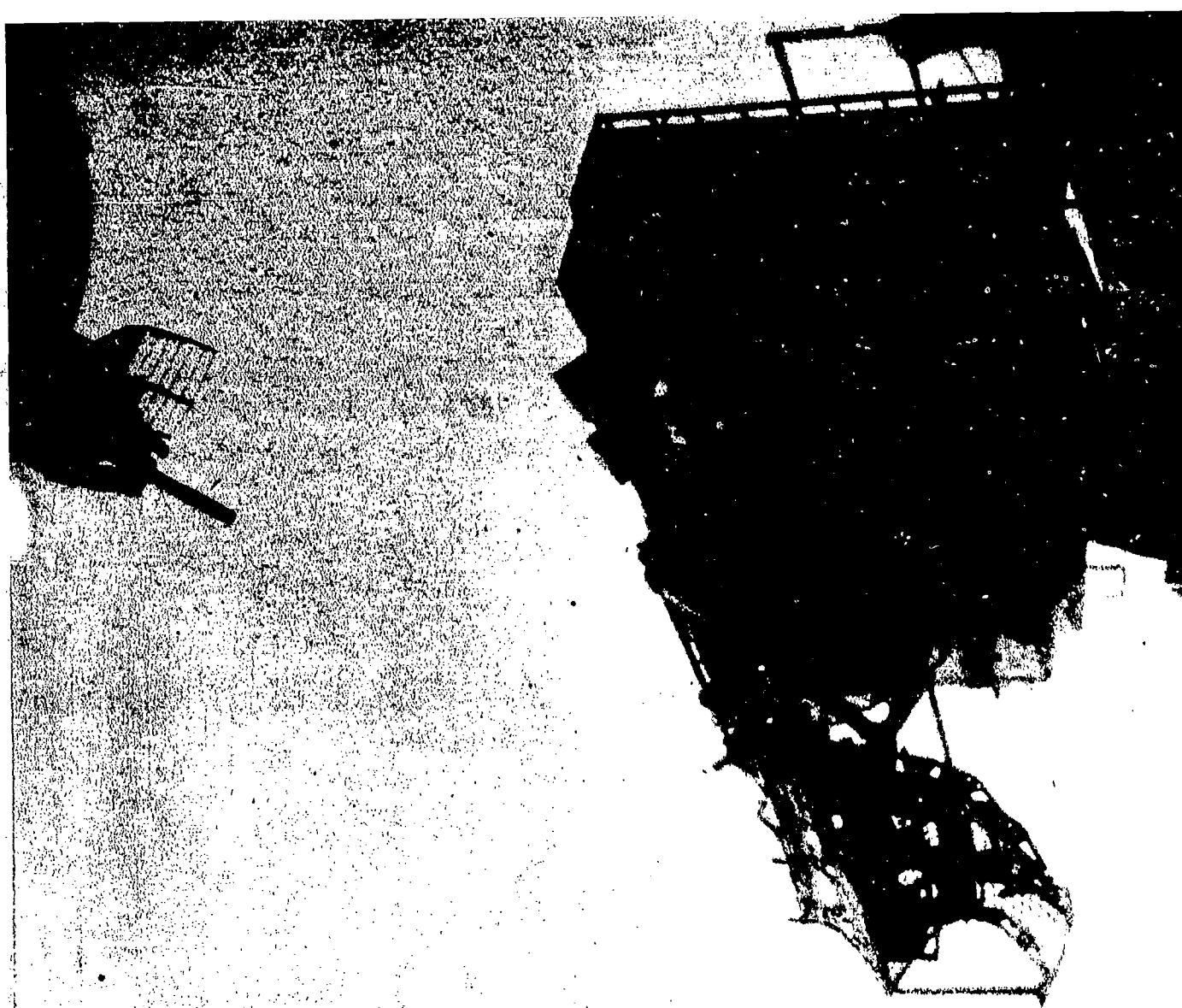
AA-CR-62-1869-5. Looking forward at foremast and radar pole mast from frame 74.

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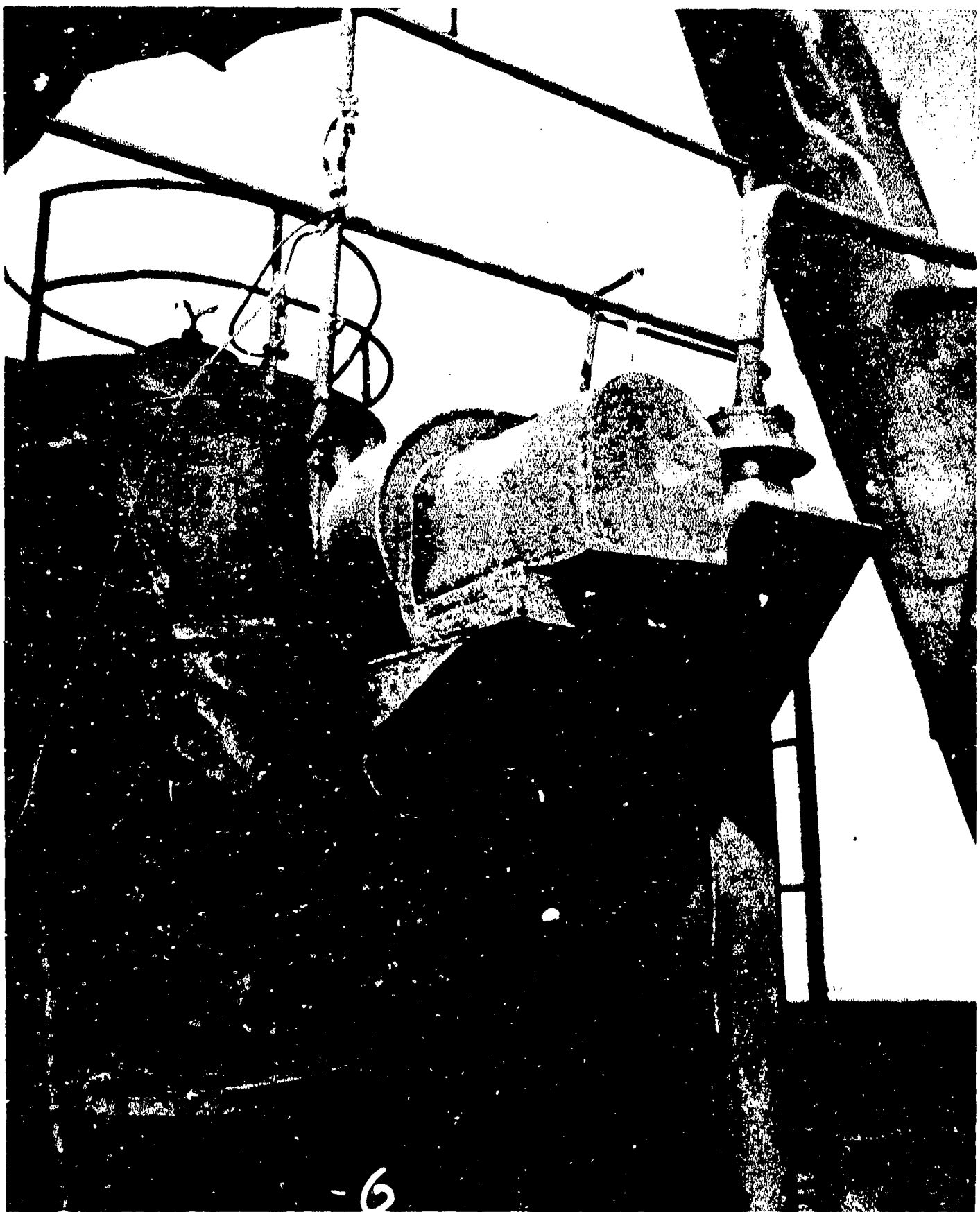
AA-CR-63-1719-11. Looking forward and inboard at damage to forward 5" director from port wing of navigating bridge.

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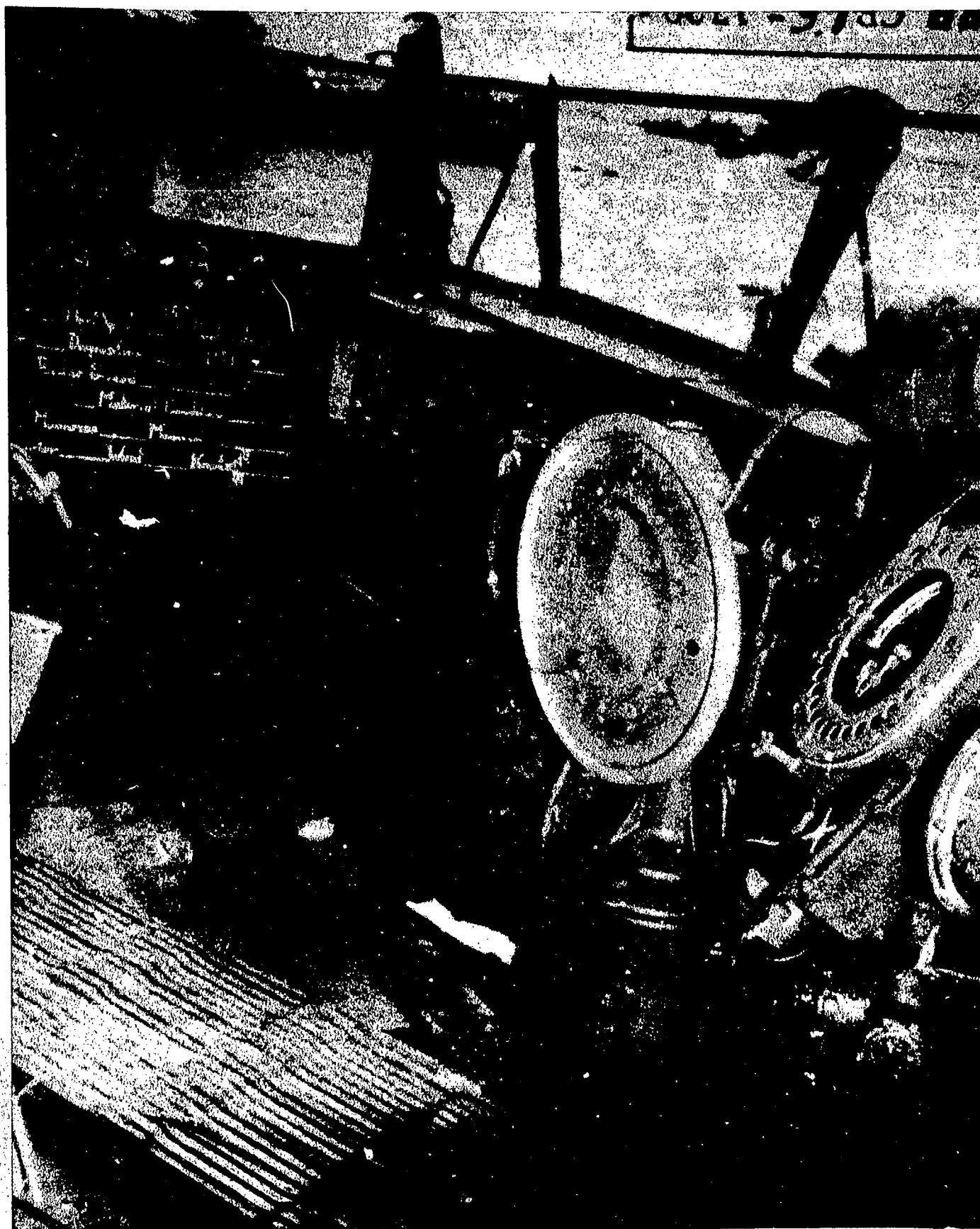
AA-CR-62-1869-6. View showing effect of blast on TBM radio whip antennae.

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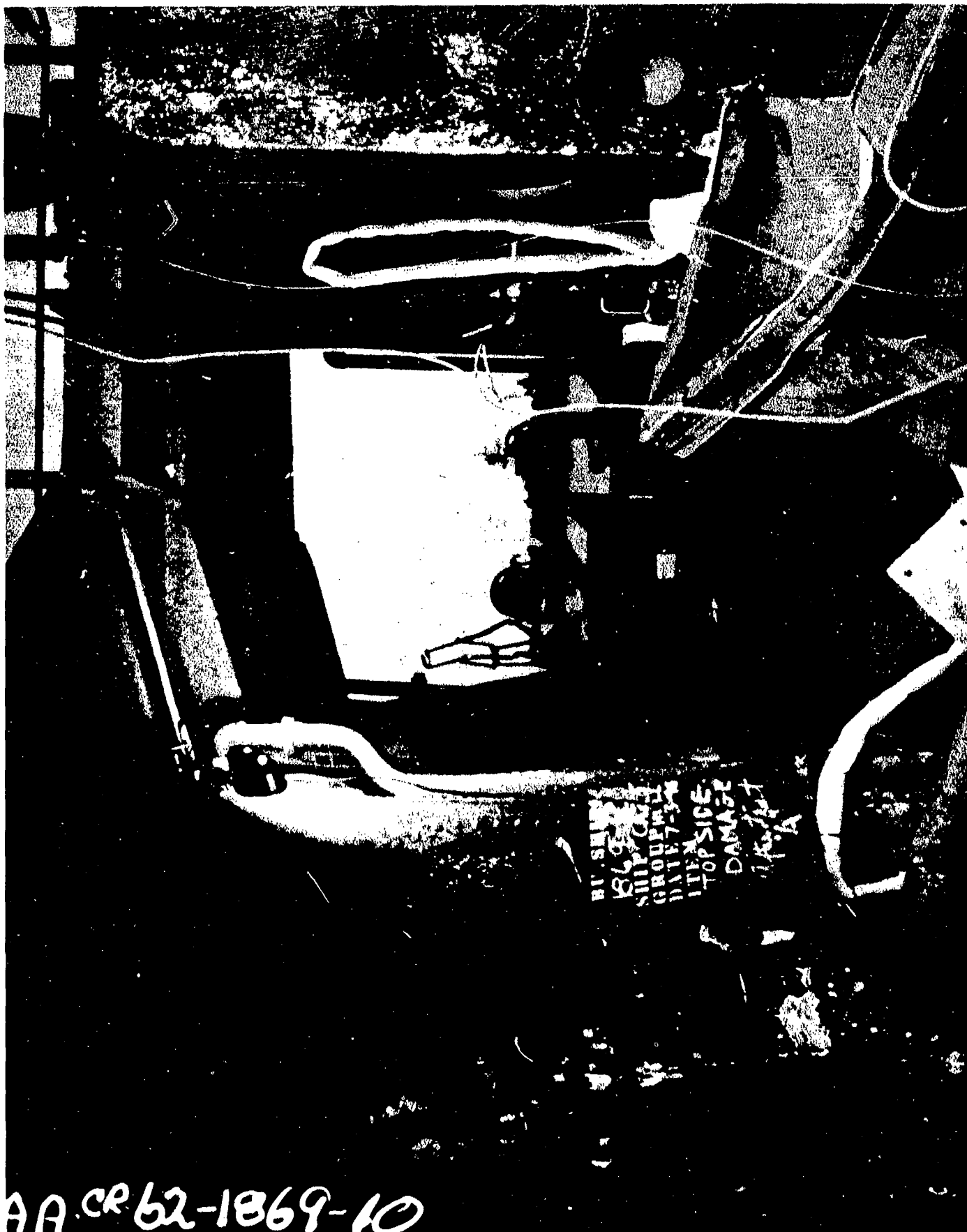
AA-CR-65-1729-8. General view to port on forward end of navigation bridge, displaced MC speaker, intercommunication unit, gyro repeater support with broken boss, mounted repeater with broken cover glass, steering wheel, dislodged repeater, steering repeater with broken glass, and broken glass in windshield.

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AA-CR-62-1869-10

AA-CR-62-1869-10. Looking to starboard at port after corner of navigating bridge deck house.

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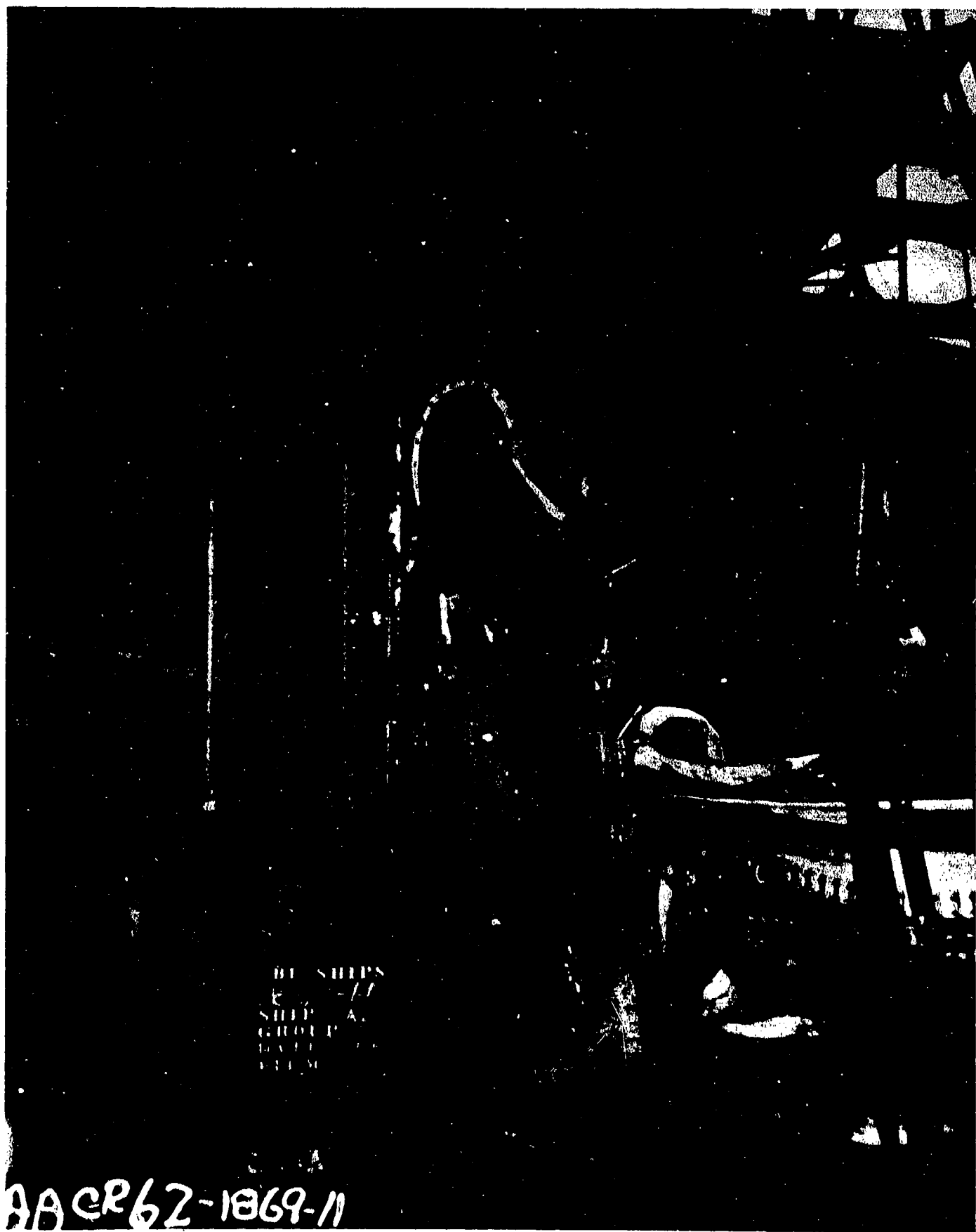
AA-CR-62-1869-9. Looking to port at starboard after corner of navigating bridge deck house.

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AA CR 62-1869-11

AA-CR-62-1869-11. Looking aft and inboard at port after corner of navigating bridge deck house.

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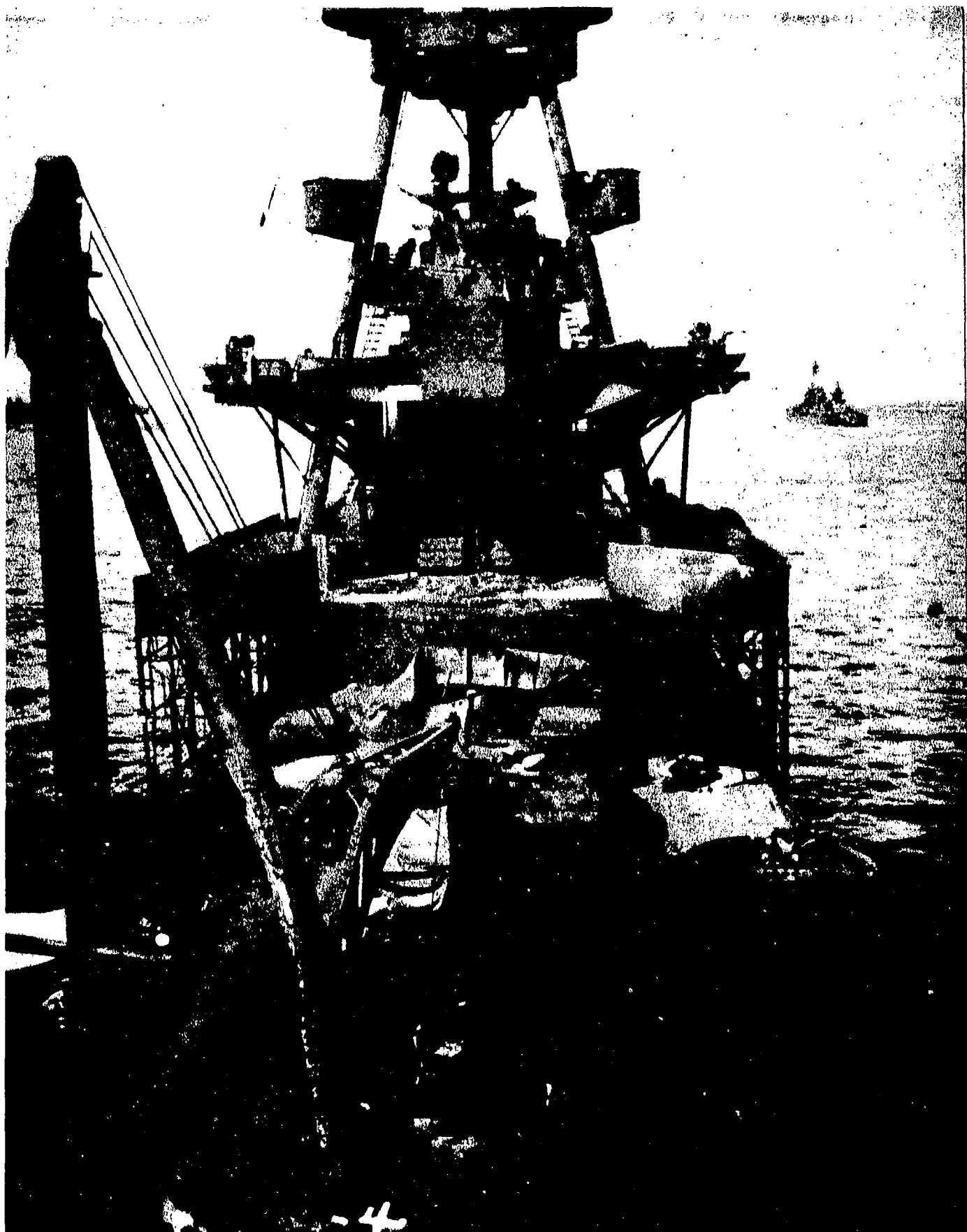
AA-CR-62-1869-3. View of port side of navigating bridge level.

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AA-CR-62-1869-4. Looking forward at forward tripod from frame 74.

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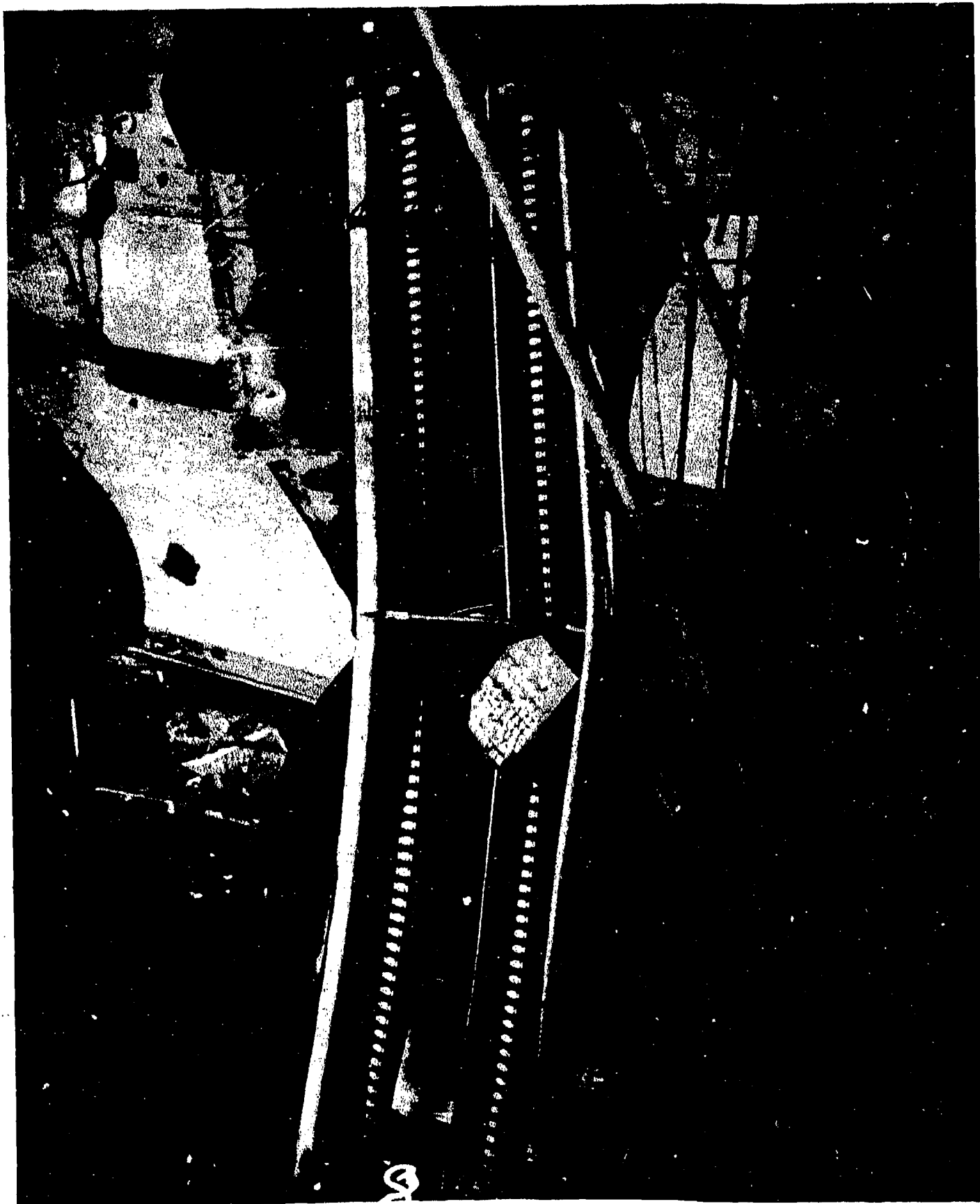
AA-CR-62-1869-7. Looking down on port flag bag.

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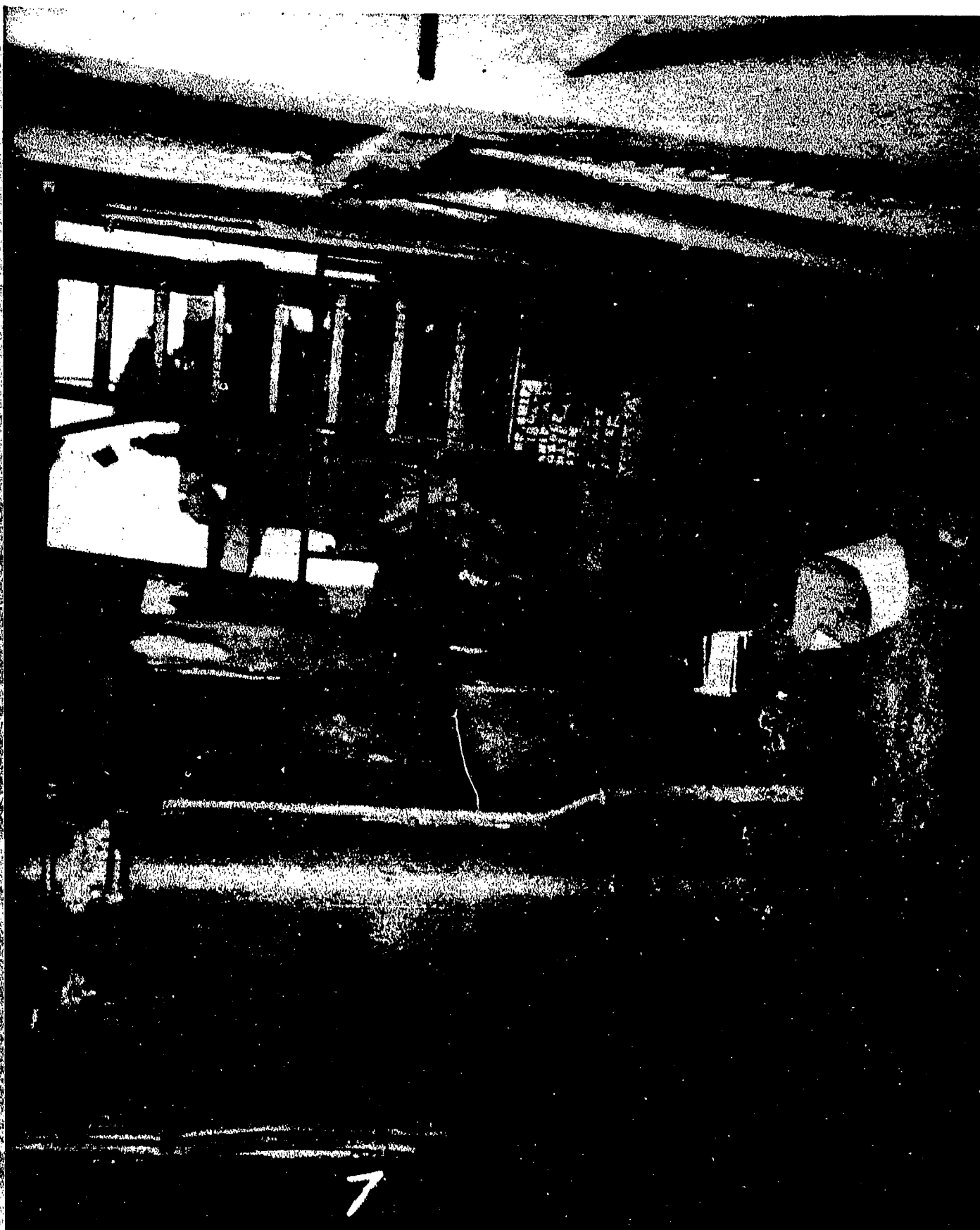
AA-CR-62-1869-8. Looking aft at starboard flag bag.

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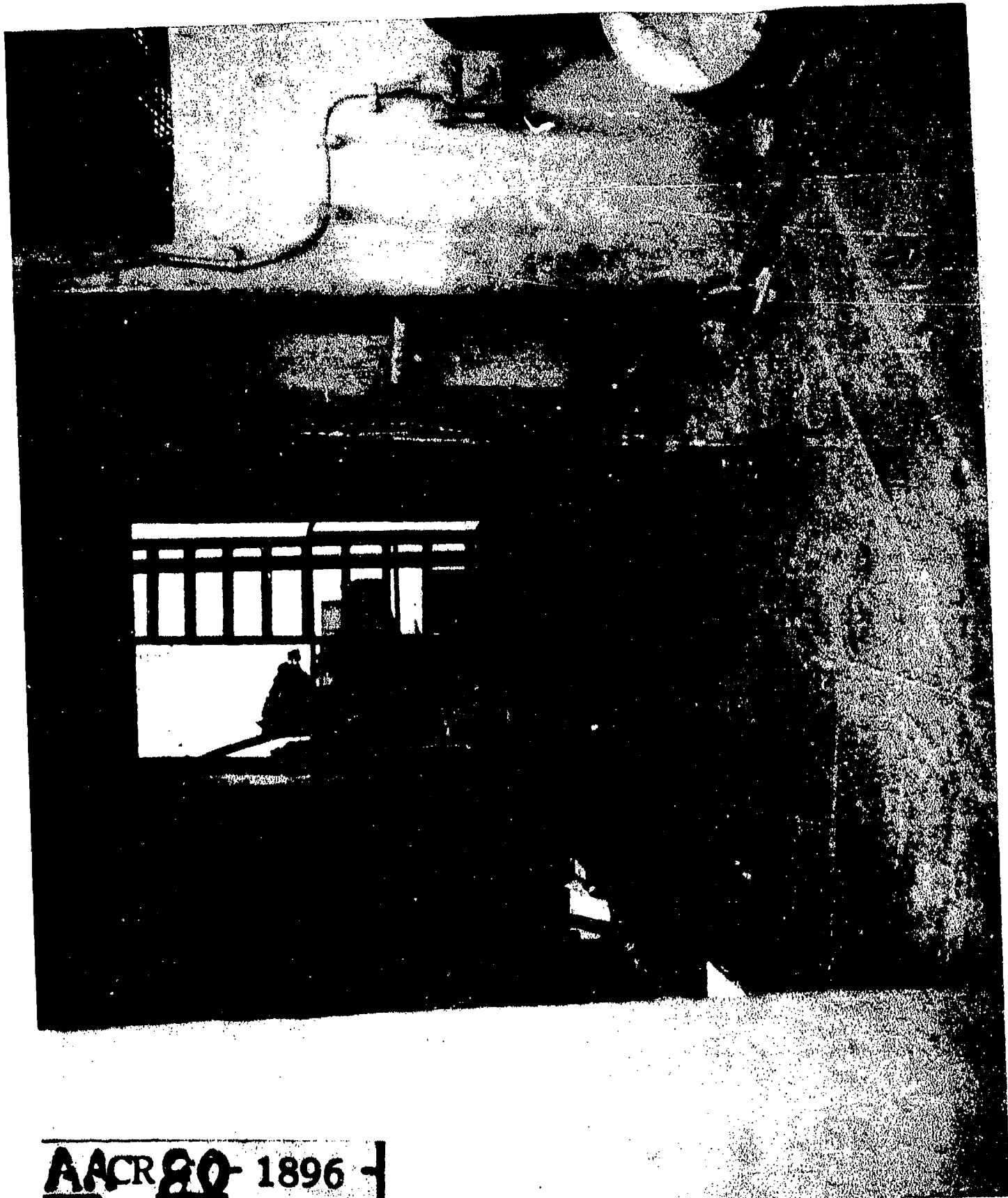
AA-CR-80-1896-7. Looking aft along port side of emergency platform.
Showing damage to bulkhead.

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AACR 80-1896 -1

AA-CR-80-1896-8. Looking aft along port side of emergency platform.
Showing distortion of deck.

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AA-CR-62-1869-12. Looking to port at after corner of plotting room, emergency platform, frame 48.

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AA-CR-80-1896-5. After side of bulkhead 48, starboard, emergency platform. Showing dishing of bulkhead and scorched paint.

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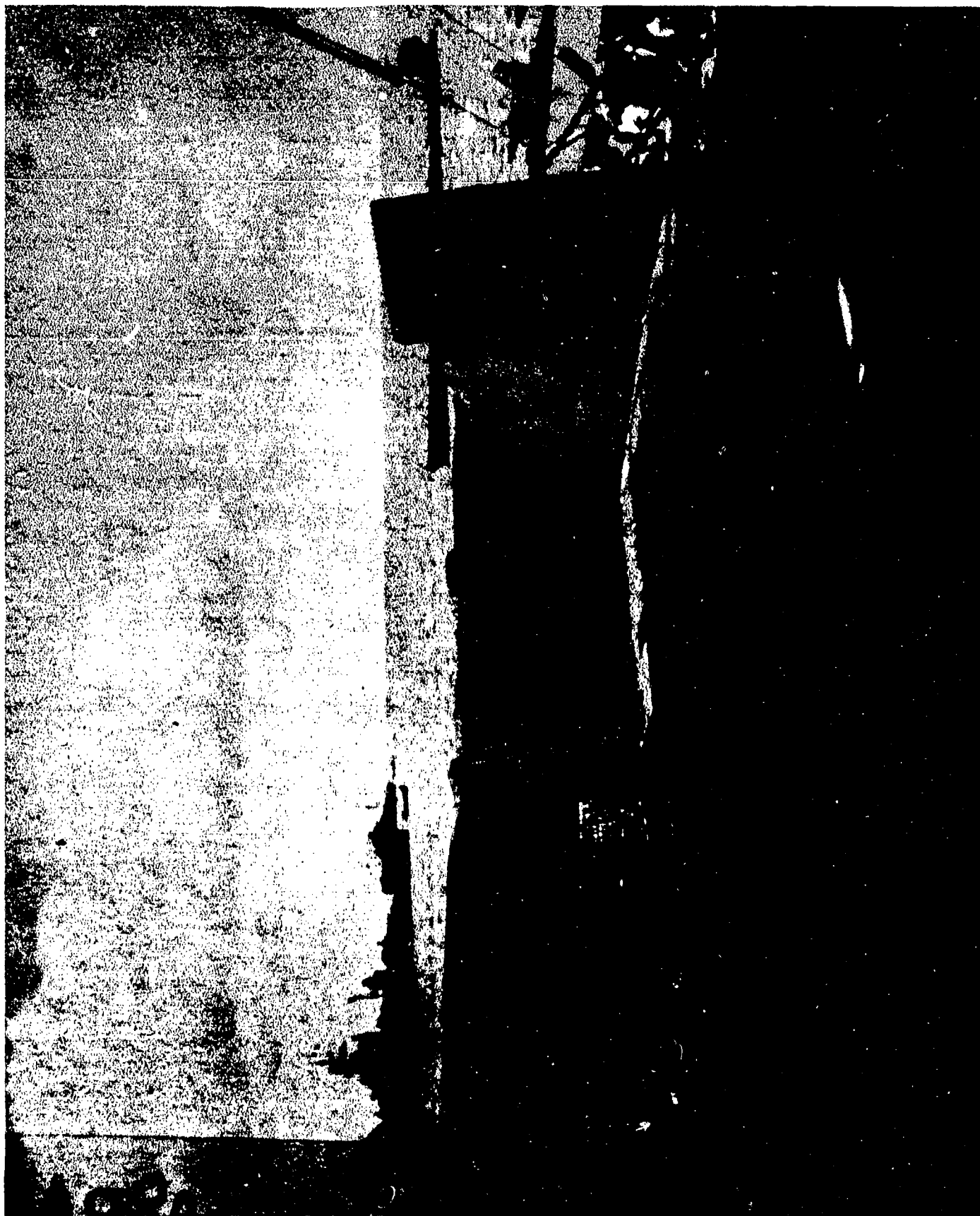
AA-CR-80-1896-3. Failure of plating in way of weld and scorching of paint on after side of bulkhead 48 on emergency platform.

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AA-CR-80-1894-2. Looking aft and outboard from frame 49, center-line, communication platform. Showing damage to starboard gun bulwark.

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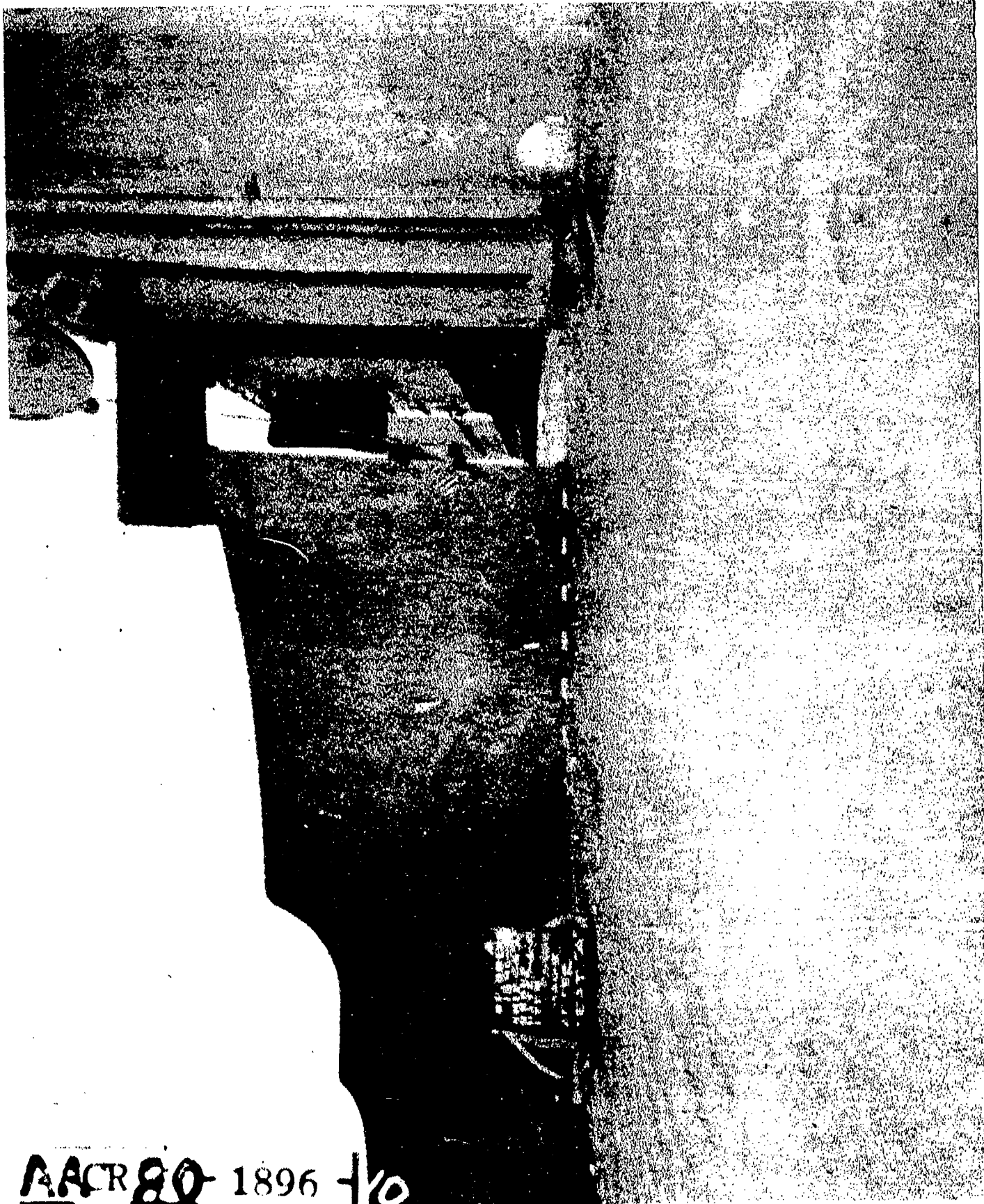
AA-CR-80-1894-1. Looking forward and outboard from frame 52, centerline communication platform. Note effect of blast on starboard ladder.

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AACR 80 1896 -10

AA-CR-80-1896-10. Looking forward along port side of communication platform showing wrinkles in deck.

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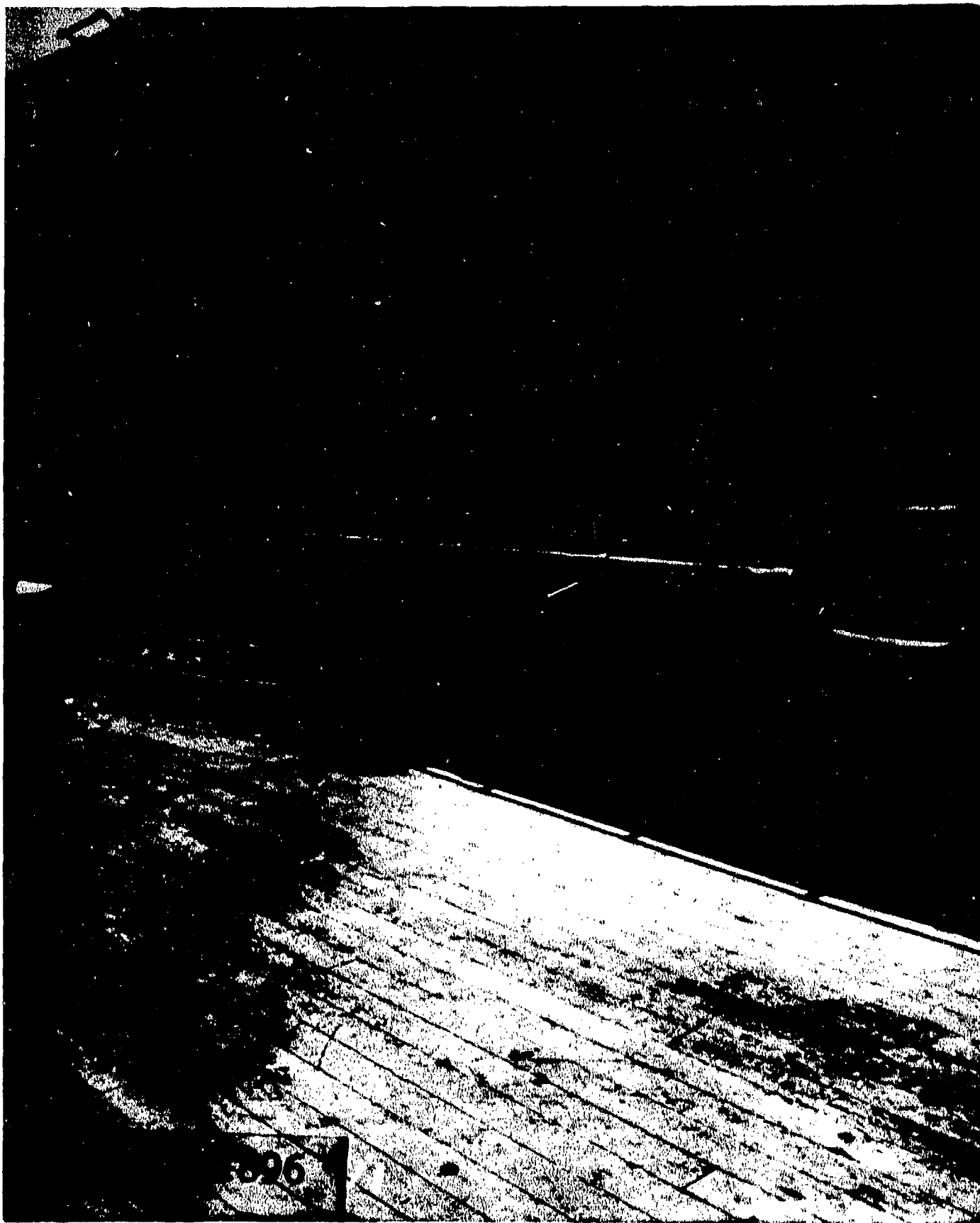
AA-CR-80-1896-9. Looking down into the 4000W clipping room,
frame 48. The 4000W clipping room is a large, dark, industrial space.

AA-CR-80-1896-9

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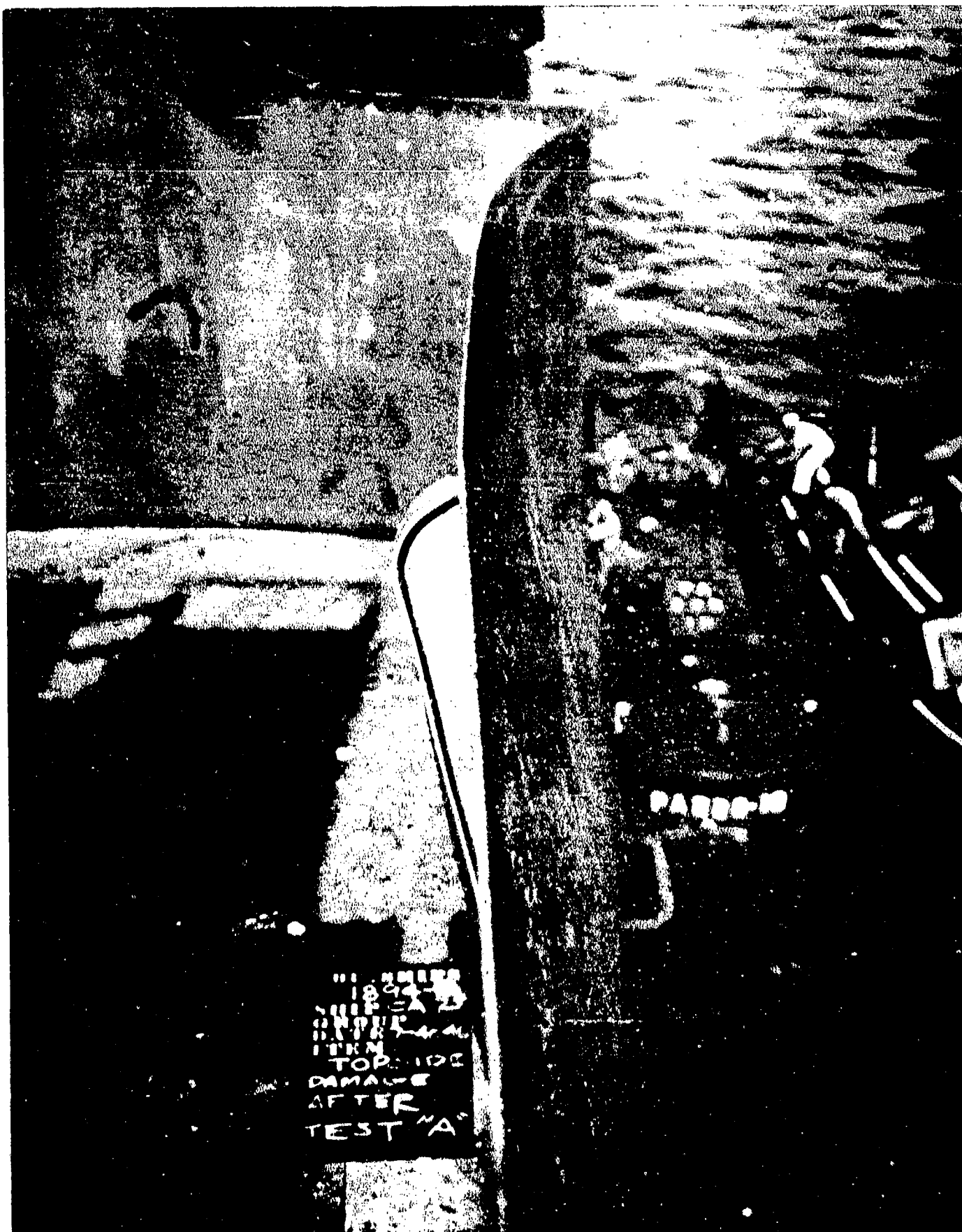
AA-CR-80-1896-11. Looking forward and to starboard from frame 38 port on communication platform. Showing scorched paint on side of mount 2 and scorched wood deck. Unscorched areas were shielded by 20MM gun bulwark.

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AA-CR-80-1894-3. Looking aft from frame 51, port, showing dishing of port gun bulwark.

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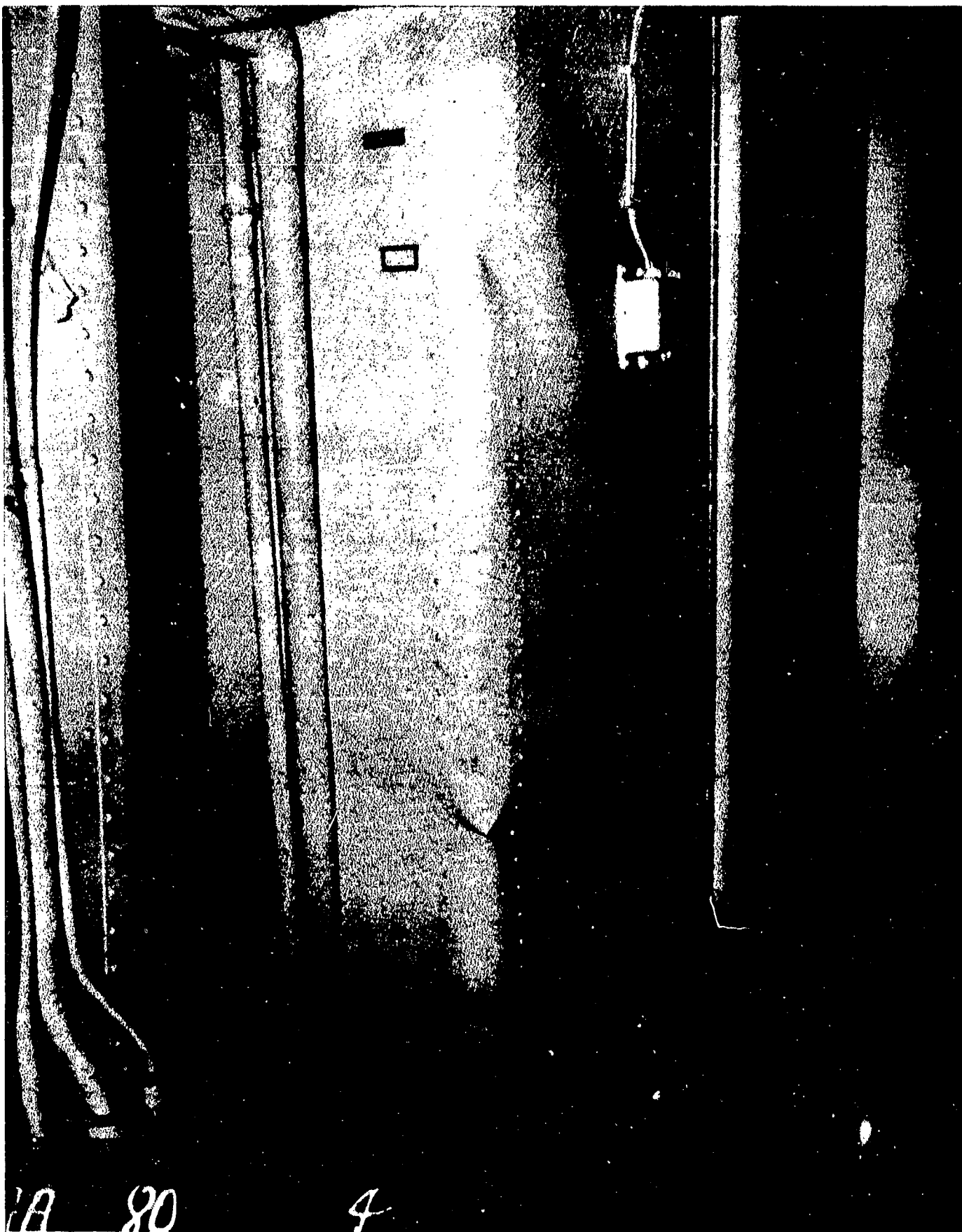
AA-CR-80-1894-5. Interior view showing port after corner of state-room 108, superstructure deck, frame 48, port.

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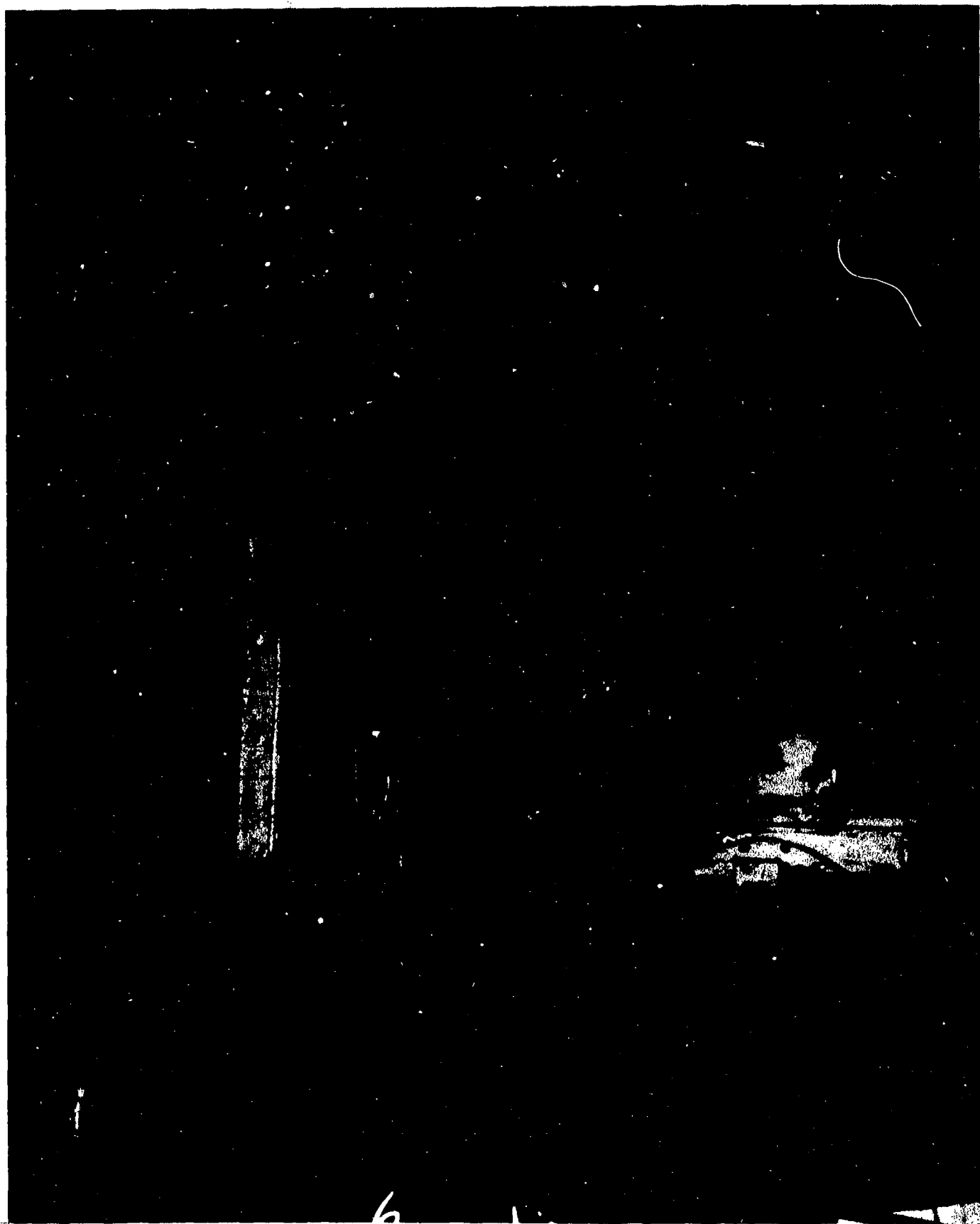
AA-CR-80-1894-4. After inboard corner of stateroom 0106, frame 46 port. Showing distortion of metal joiner bulkhead which resulted from deflection of communication platform above.

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AA-CR-80-1894-6. Looking forward at bulkhead 46, port, main deck.
Showing superstructure deck lifted from deck girders.

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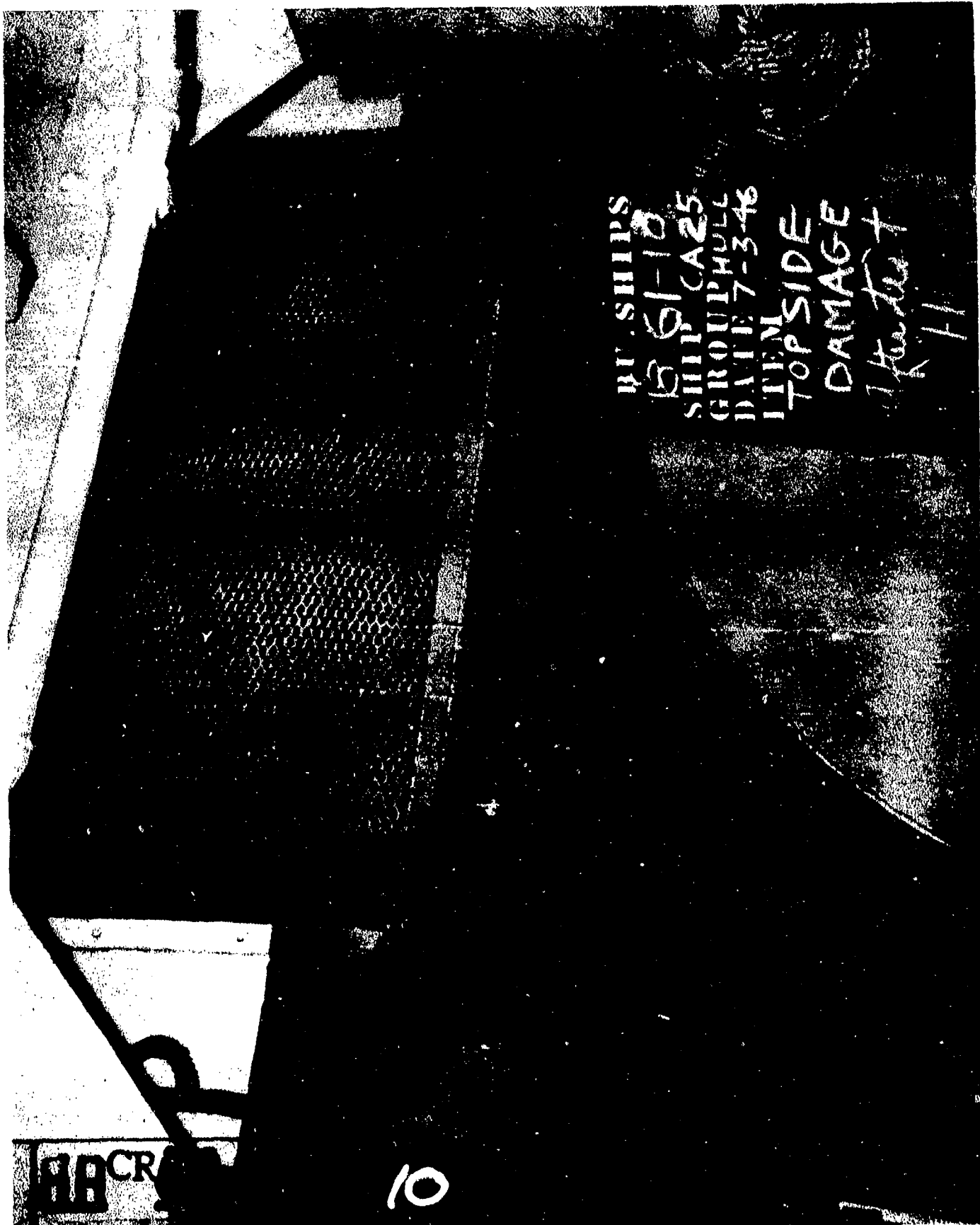
AA-CR-62-1861-9. Pushed in vent duct cover at frame 30, port, main deck.

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61-10
SHIP CA25
GROUP PHUL
DATE 7-3-46
ITEM
TOP SIDE
DAMAGE
Hester
H

AA-CR-62-1861-10. Continuation of vent duct shown in 1861-9, showing bent wire mesh screen, frame 30, port, main deck.

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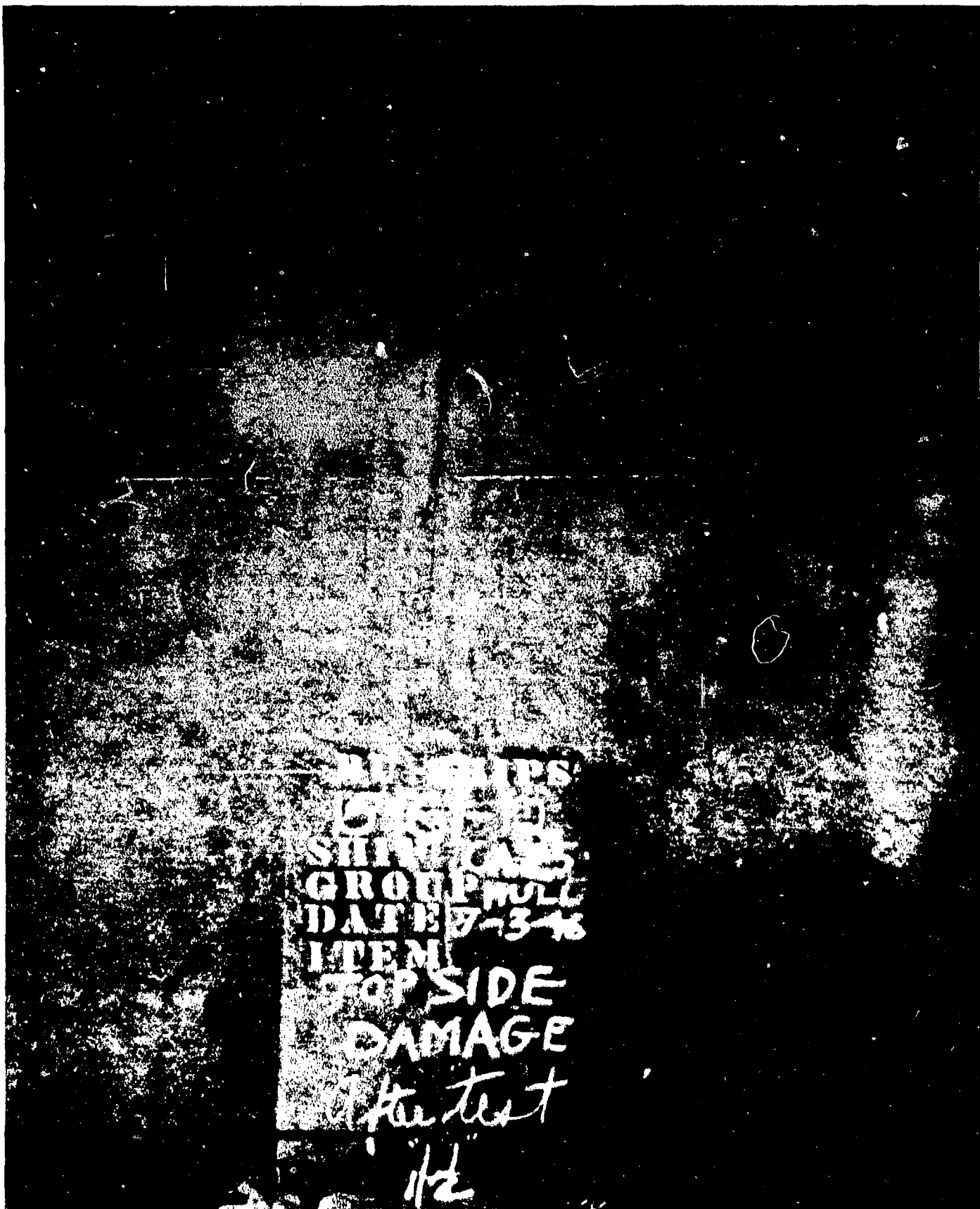
AA-CR-62-1861-11. Dished door at frame 35, port main deck, stiffener on door is broken in way of previous weld failure.

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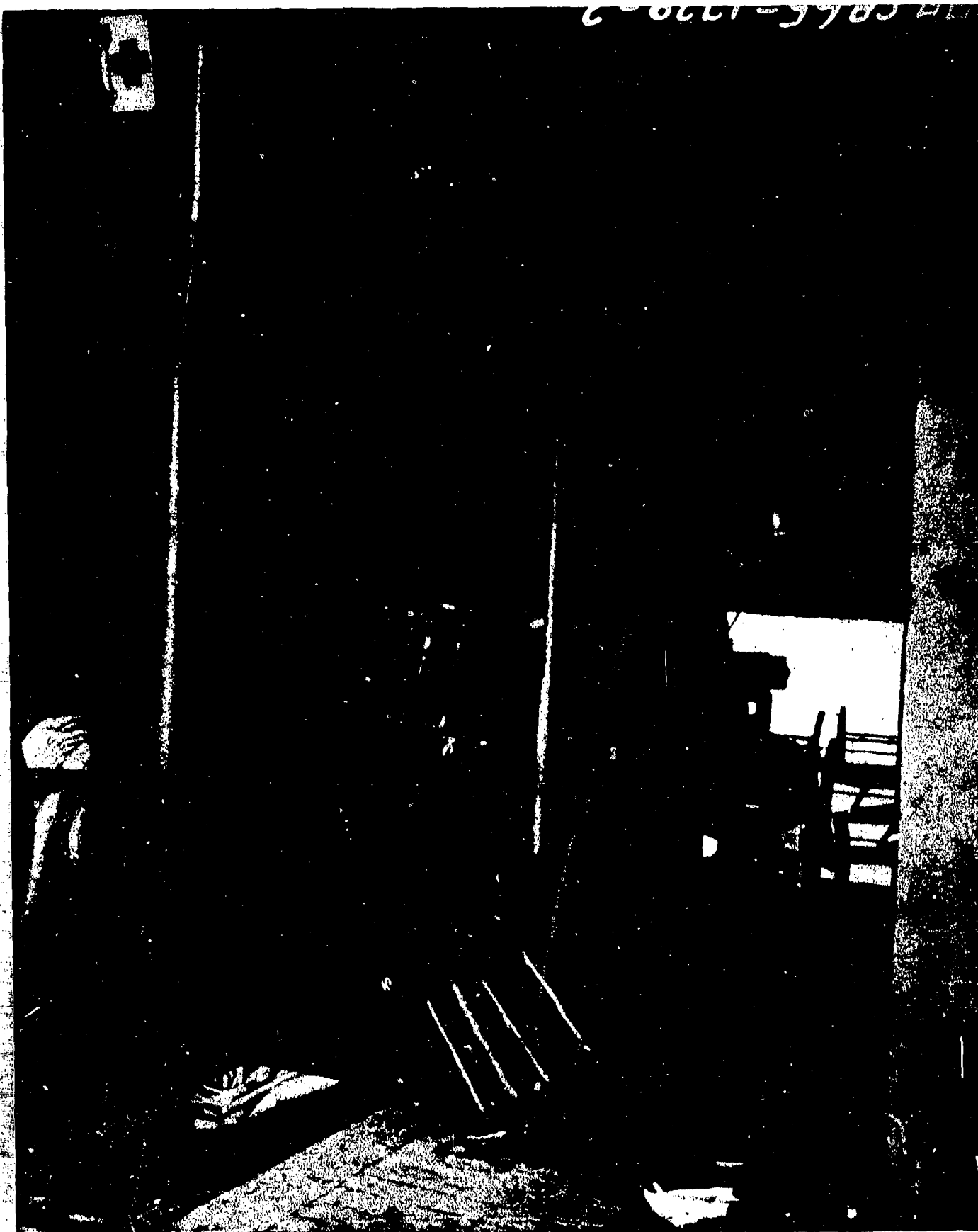
AA-CR-62-1861-12. Crack in longitudinal superstructure bulkhead, frame 45 port, main deck.

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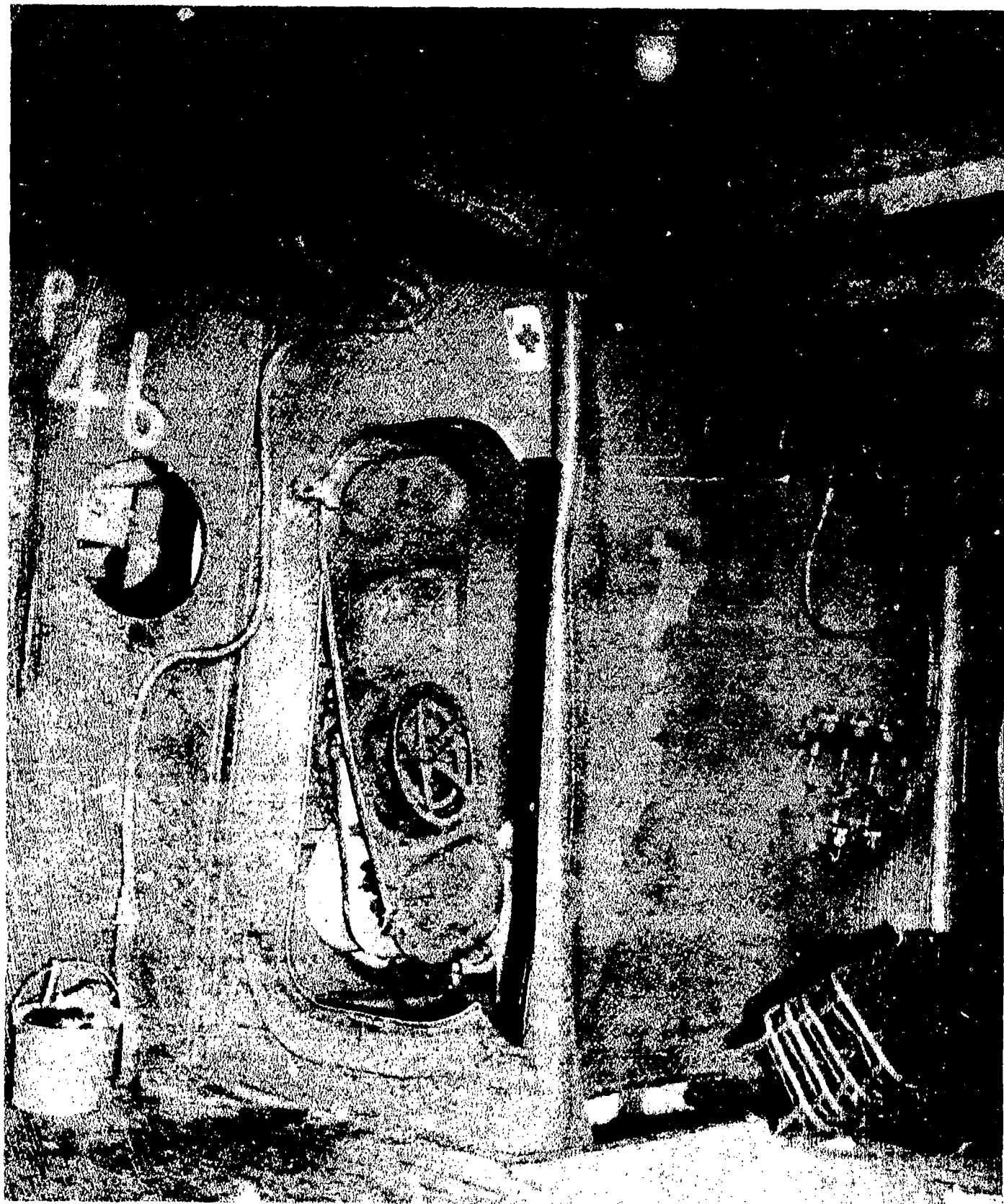
AA-CR-65-1729-2. Damage to door frame and bulkhead in passageway, frames 46 to 48, port main deck. (see, also, 1729-3.)

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AA-CR-65-1729-3. Damage to door, door frame and transverse bulkhead, frames 46 to 48 port, main deck. (see also 1729-2.)

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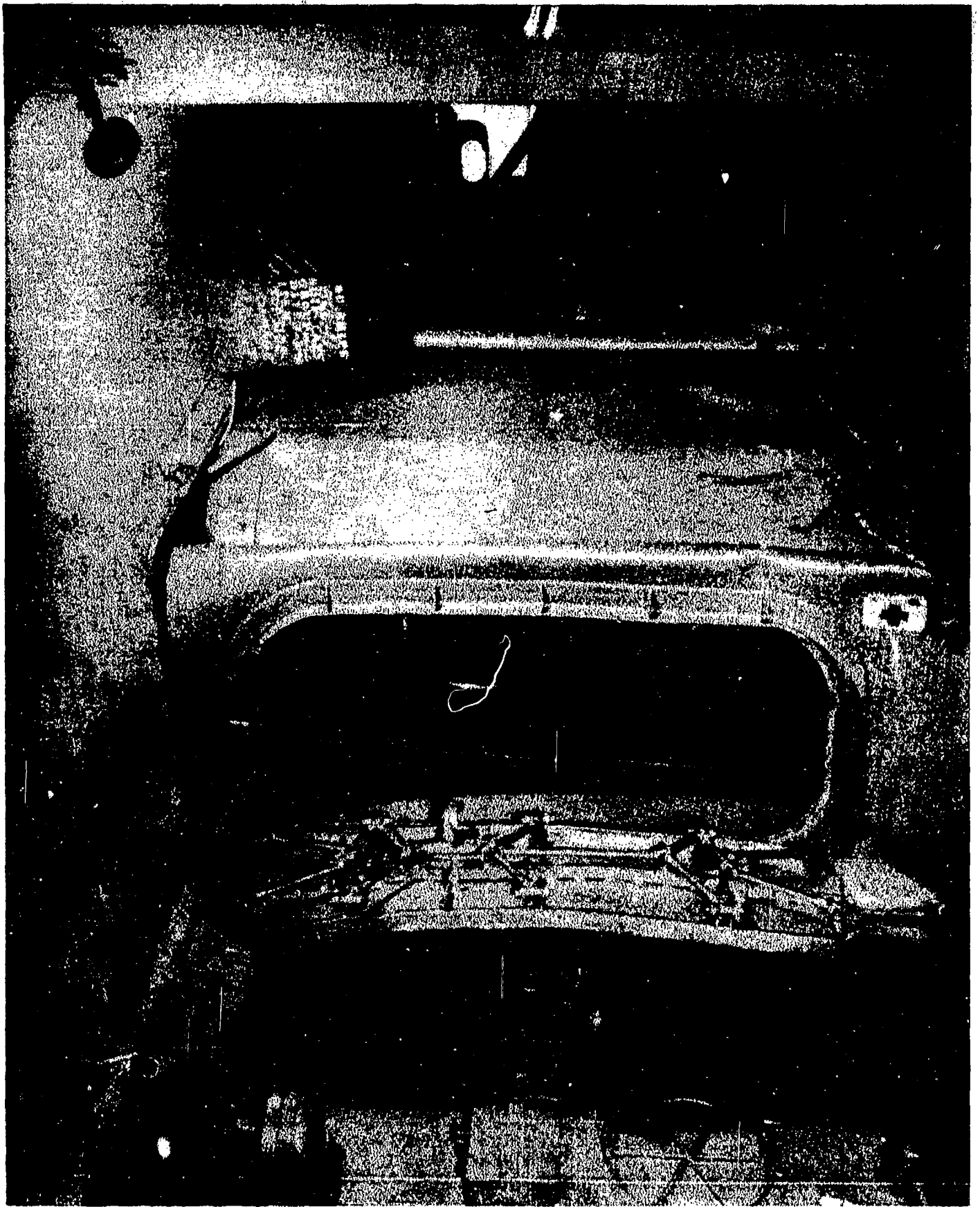
AA-CR-62-1866-1. Looking to starboard at damaged doors, door frame, and bulkhead in transverse passageway main deck, frame 49, port.

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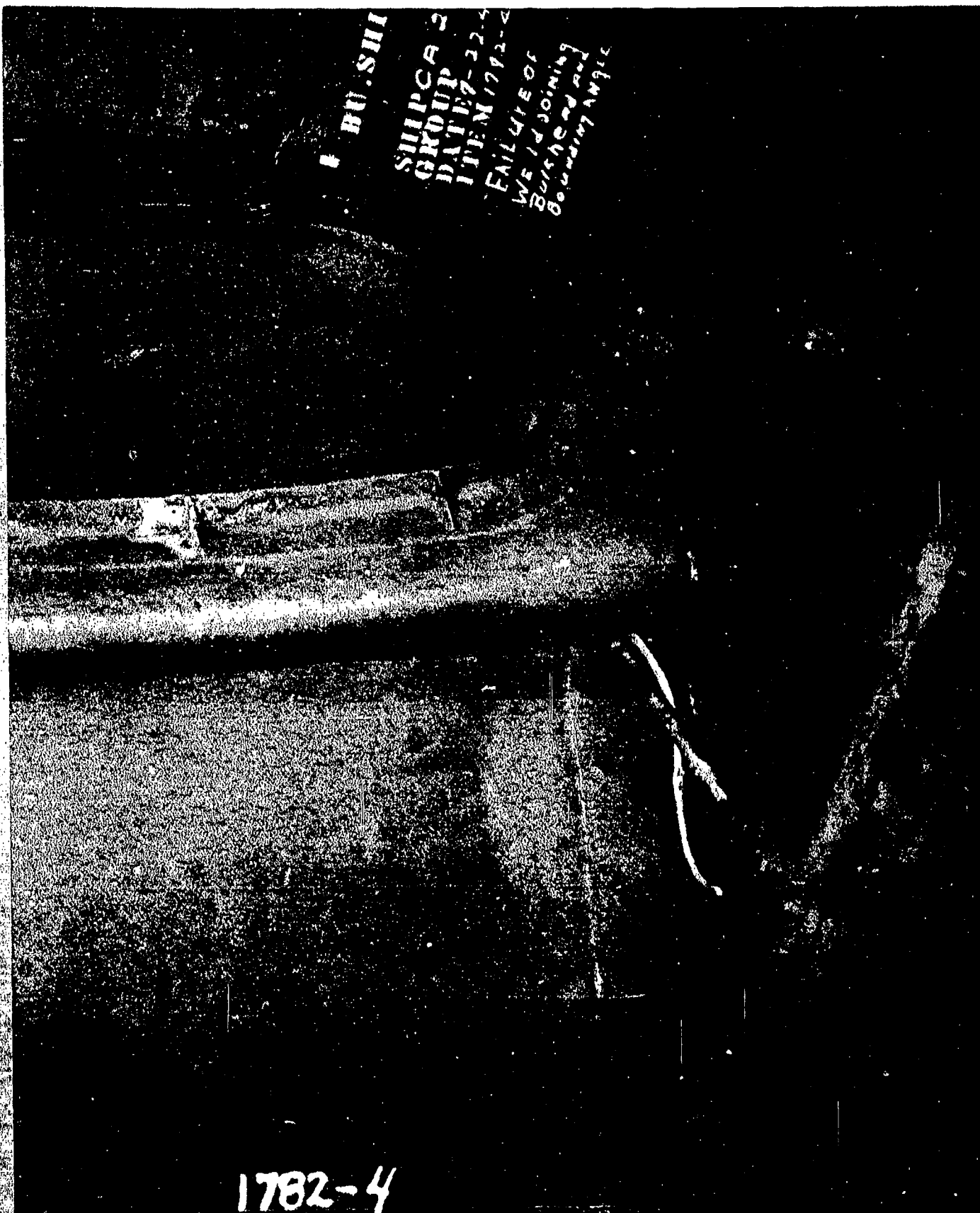
AA-CR-62-1866-11. Looking forward and to port at torn bulkhead and dished door in transverse passageway frame 46 to 49, main deck, starboard.

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BU.SHI
SHIPCA 2
GROUP
DATE 17-22-5
ITEM 1782-4
FAILURE OF
WE LD JOINING
BULKHEAD AND
BOUNDING ANGLE

1782-4

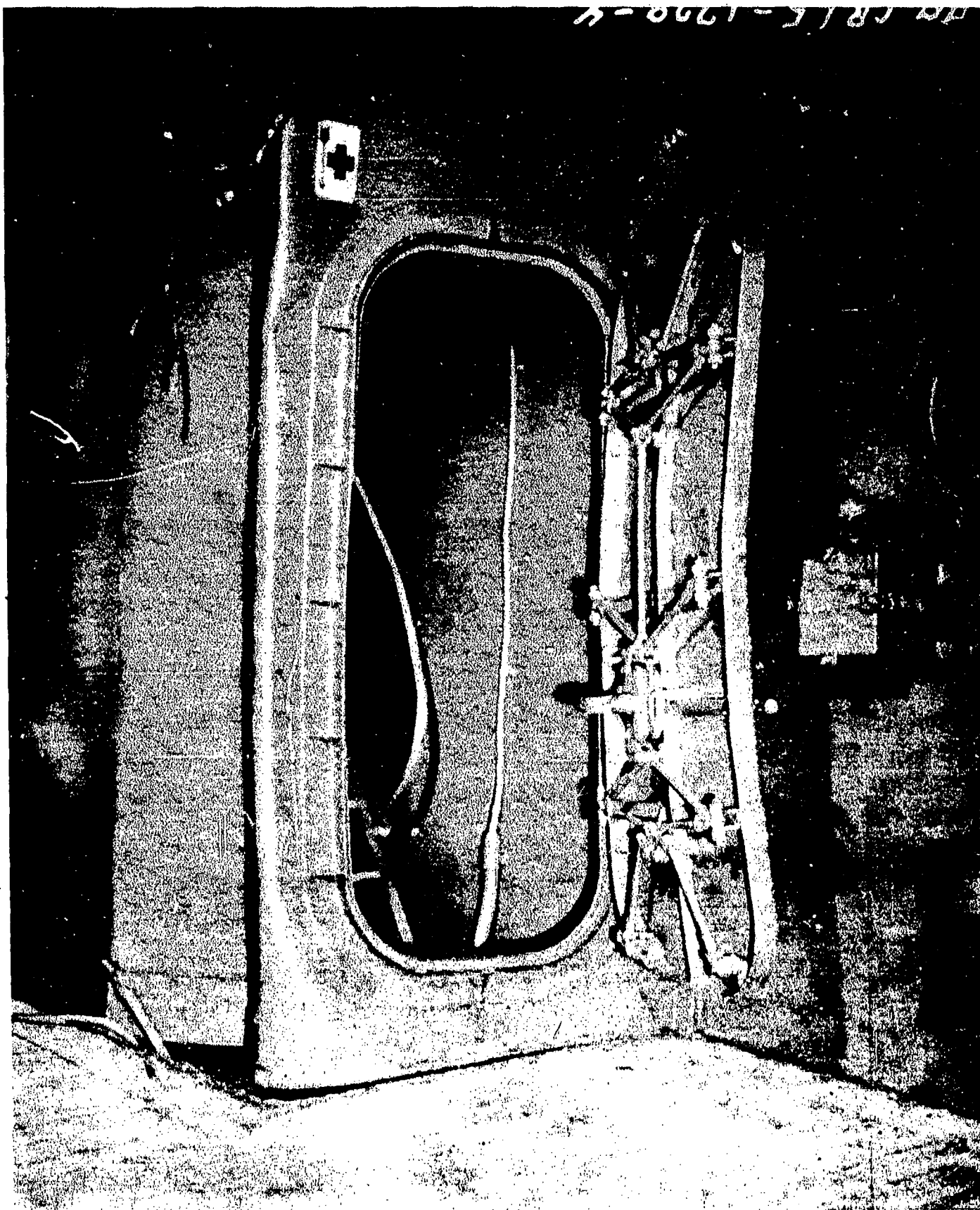
AA-CR-92-1782-4. Failure of weld between bulkhead and bounding angle at frame 47, starboard, main deck. See also 1729-4.

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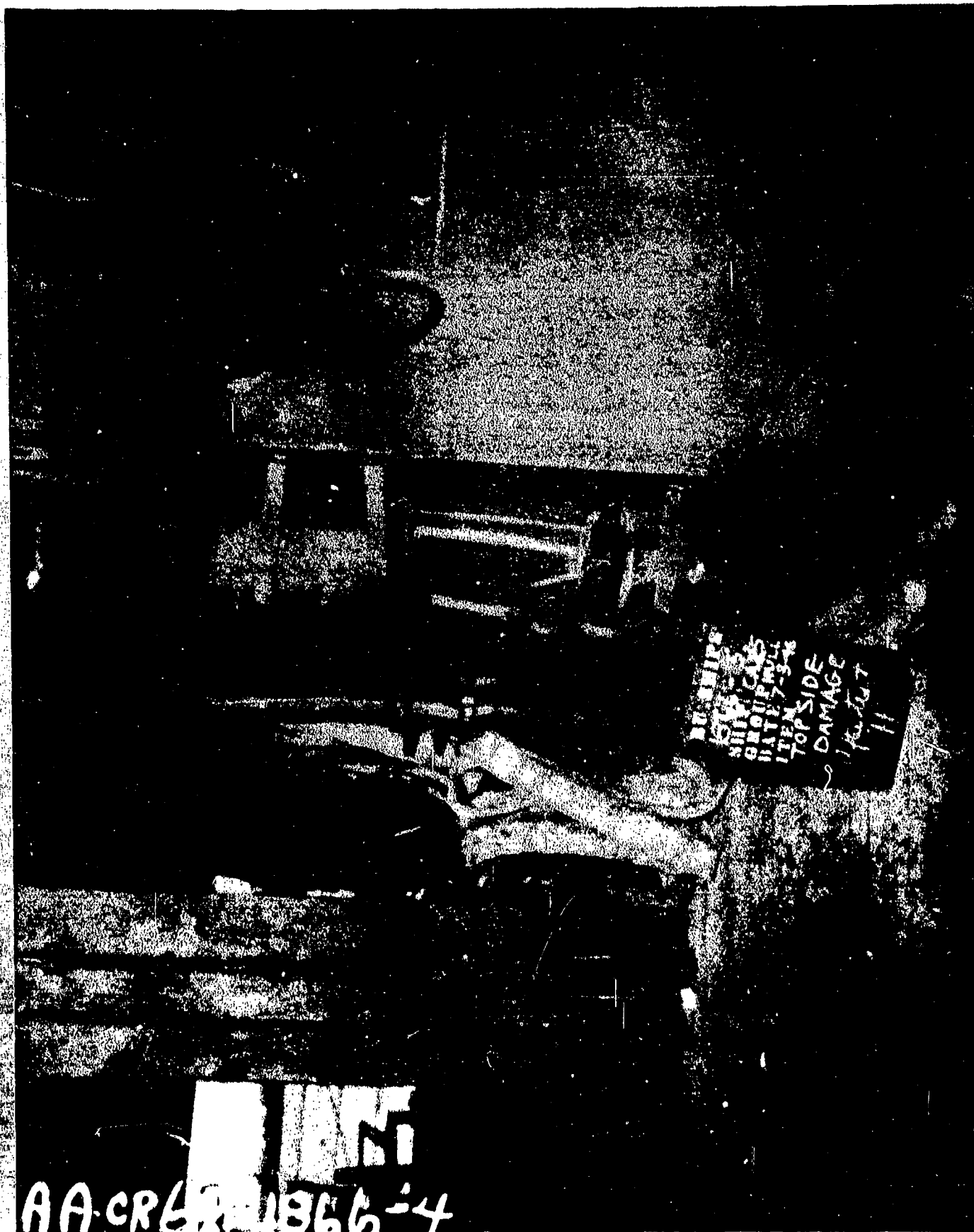
AA-CR-65-1729-4. Damage to door, door frame, and bulkhead, frames 46 to 48 starboard, main deck. Note failure of welded overhead and deck connection. (see, also, 1782-4.)

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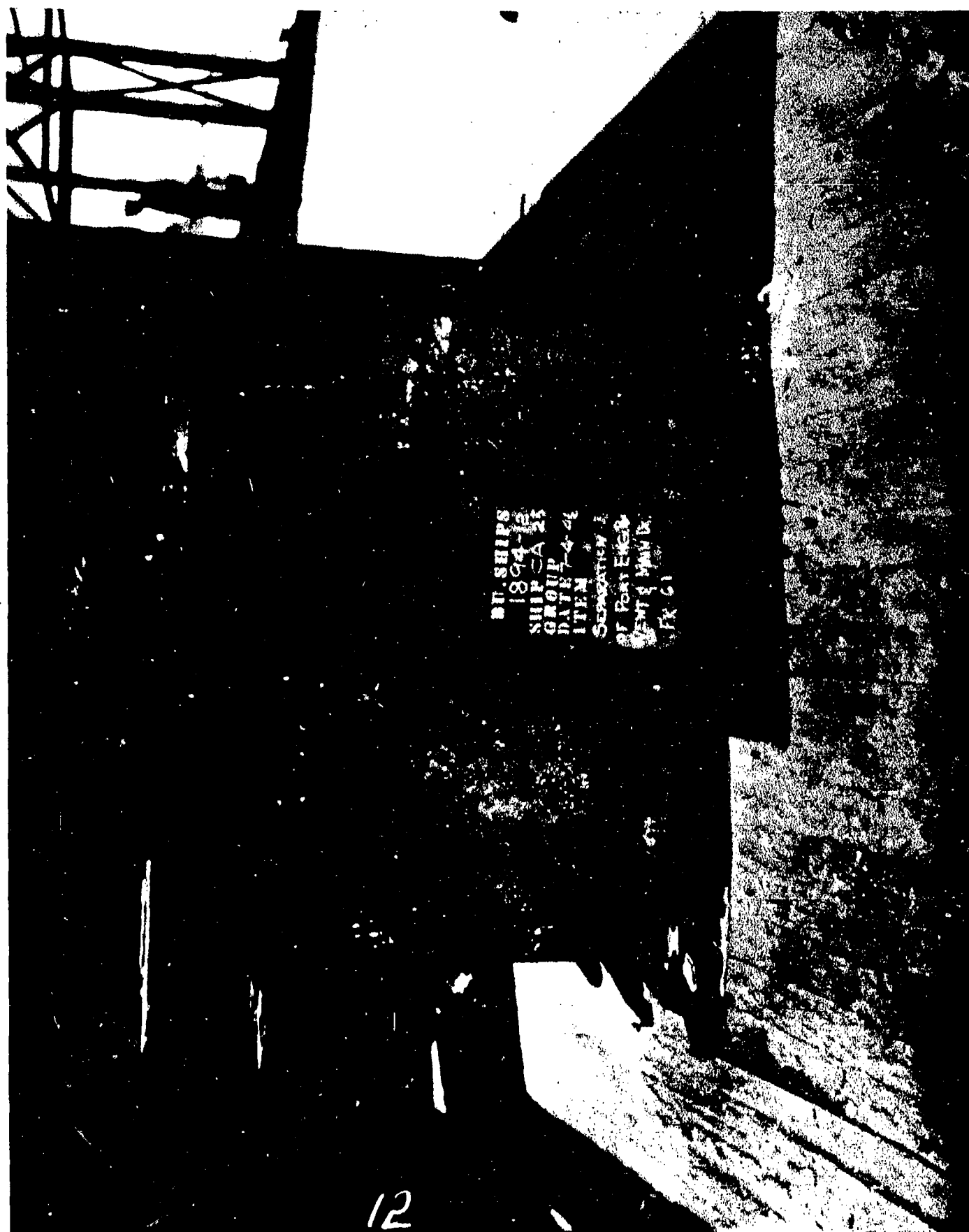
AA-CR-62-1866-4. Looking to starboard at dished structure and bent piping in transverse passageway main deck, frame 49, port.

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AA-CR-80-1894-12. Looking forward at starboard vent, main deck frame 62, showing torn deck at edge of vent trunk.

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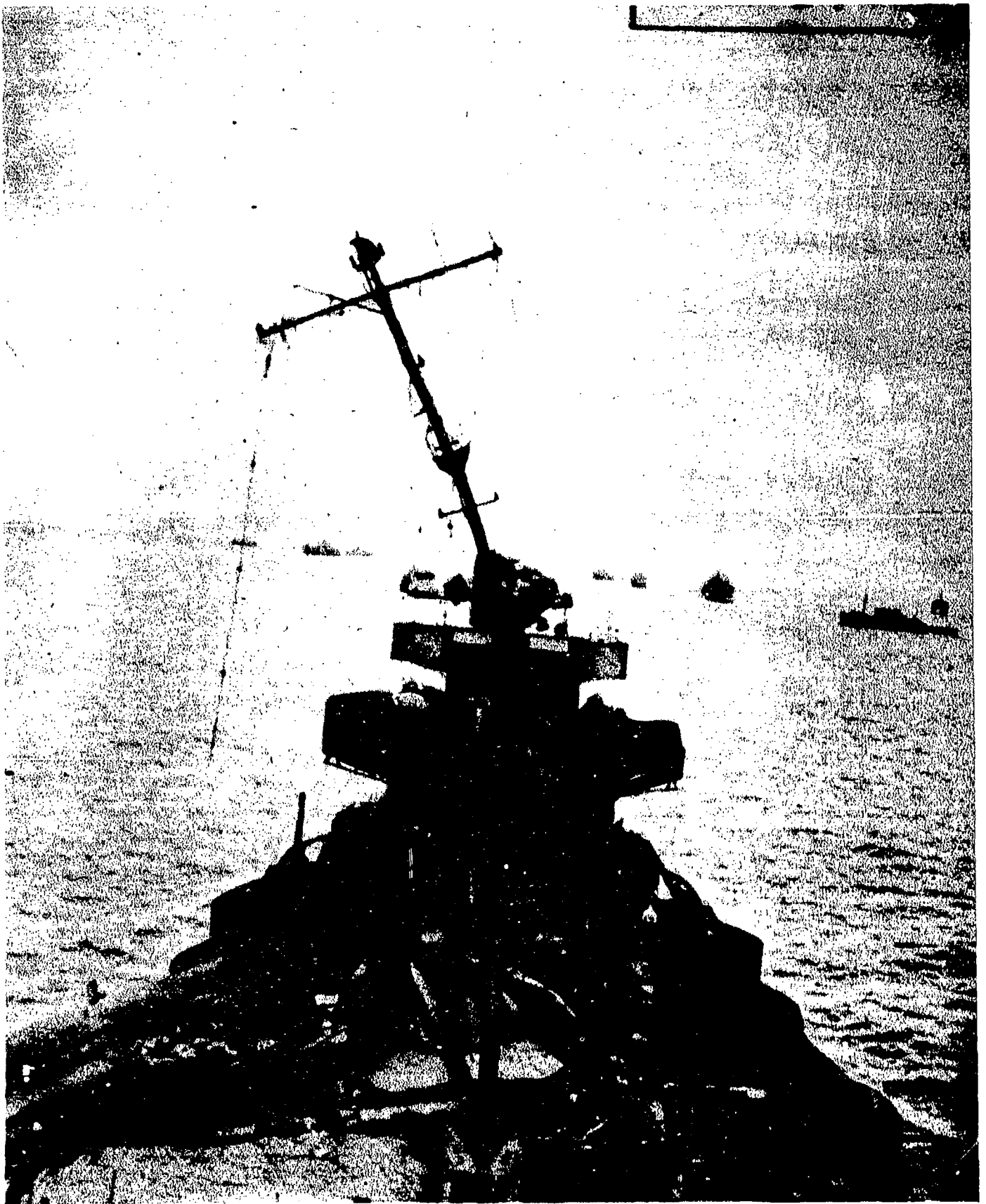


AA-CR-62-1868-8. View looking forward at bulkhead 88 from frame 94 showing curve in radar mast and condition of rigging.

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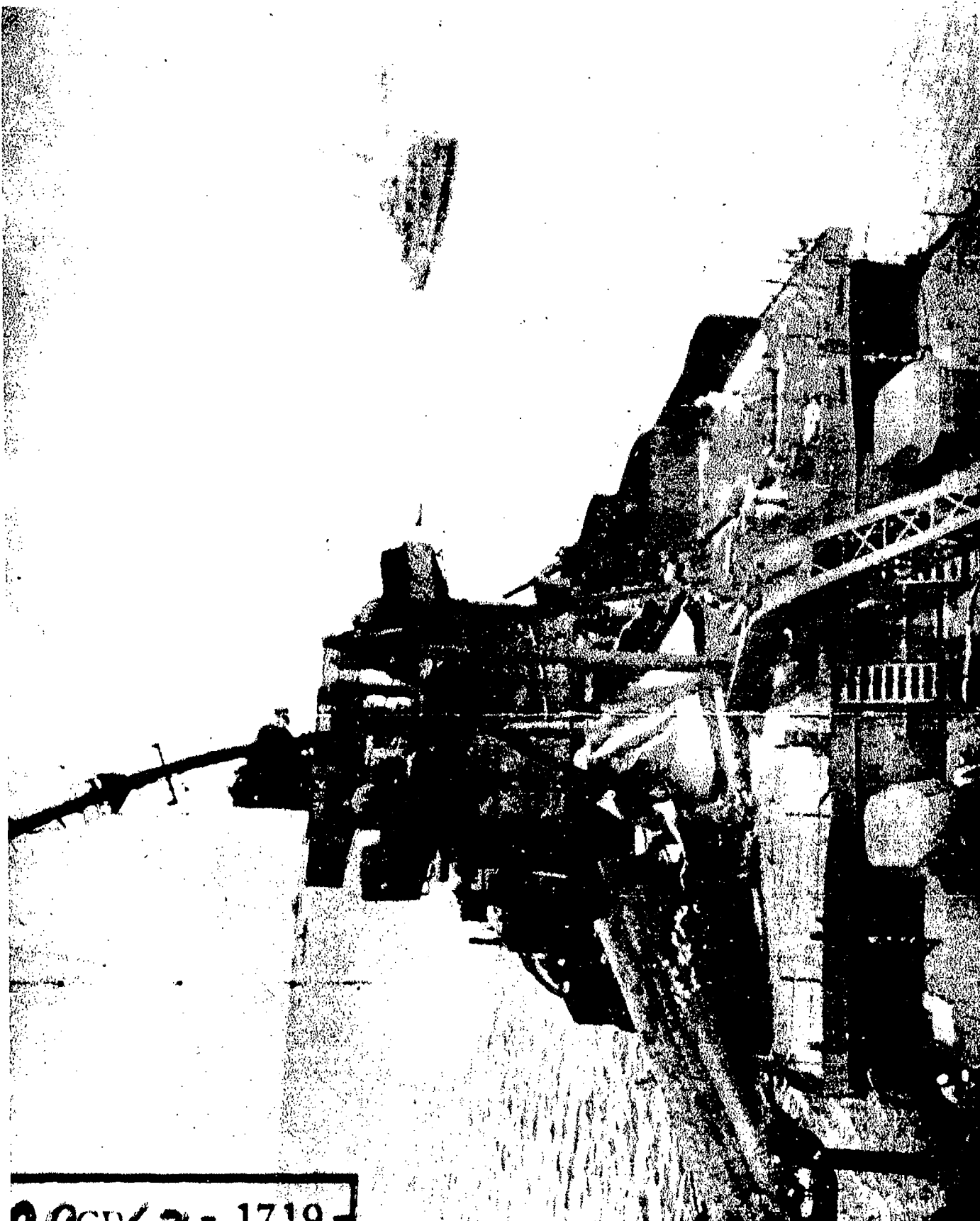
AA-CR-65-1729-10. Looking aft from navigating bridge at damage to after stack, mainmast, and airplane crane. See also 1729-9.

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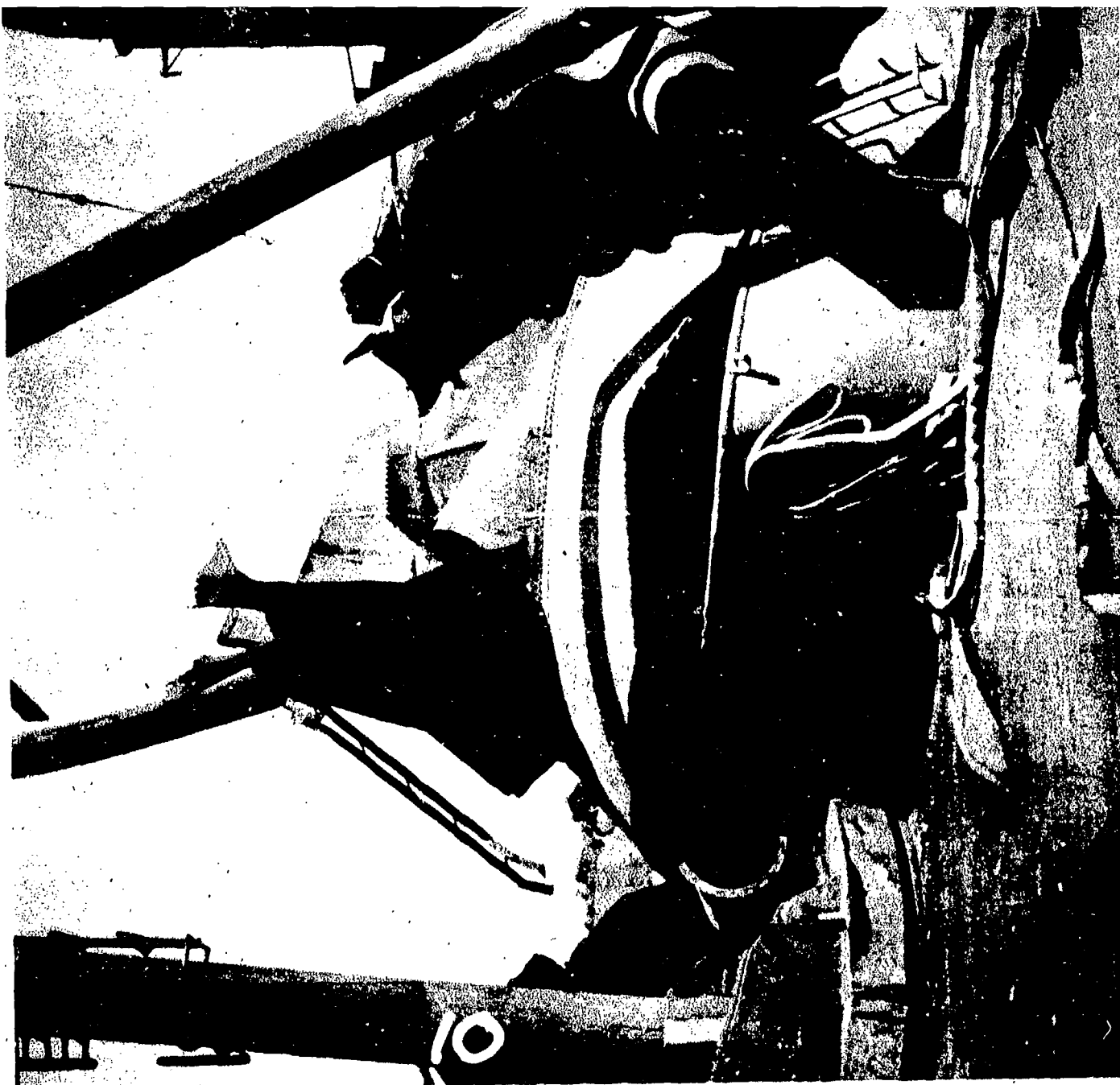
AA-CR-63-1719-10. Looking aft at damage to after stack and atop deckhouse at frame 90.

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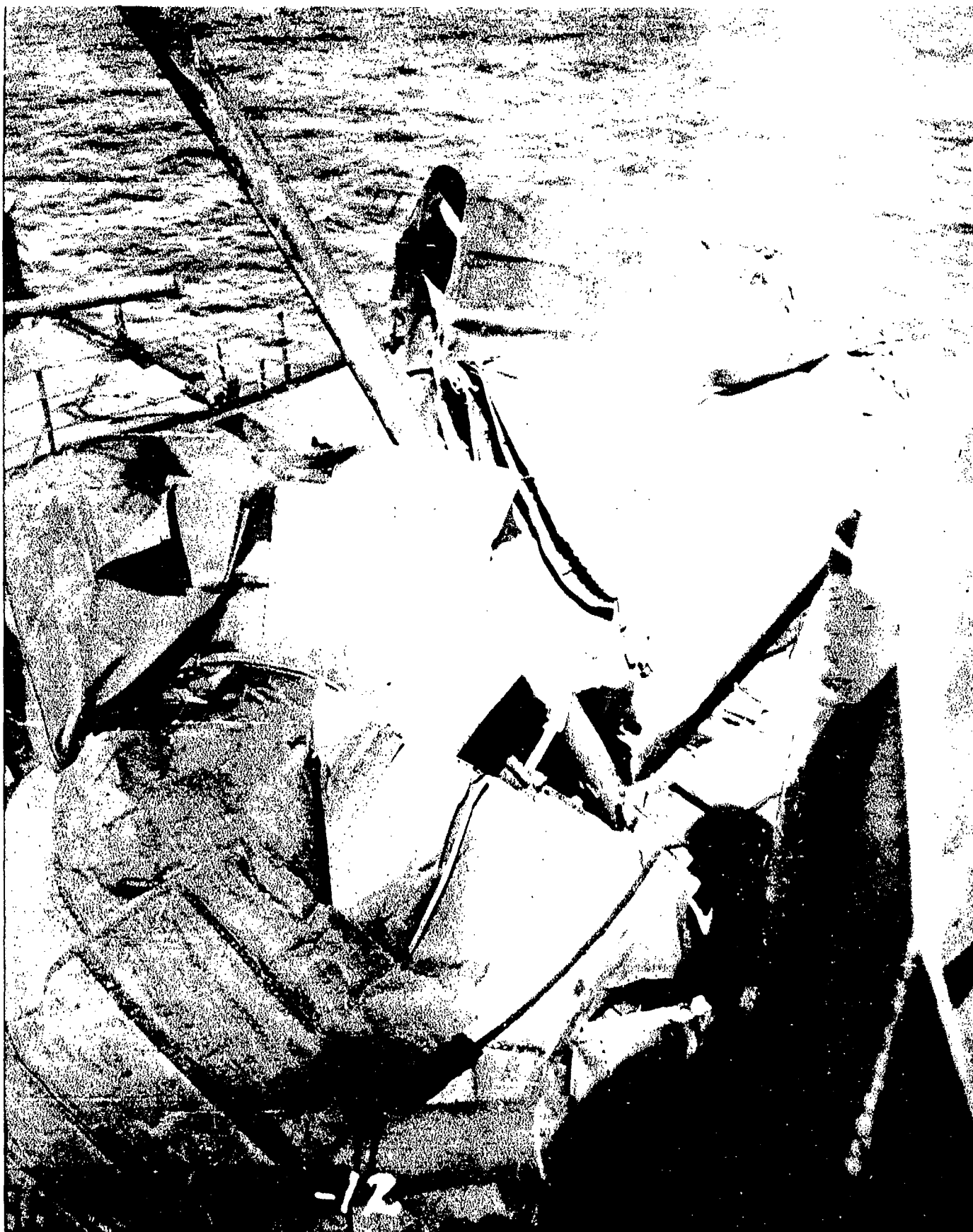
AA-CR-62-1868-10. Looking at port side of No. 2 smoke stack stump. Note loose end of rigging upper center right. Note also bend in starboard tripod leg caused by smokestack in falling.

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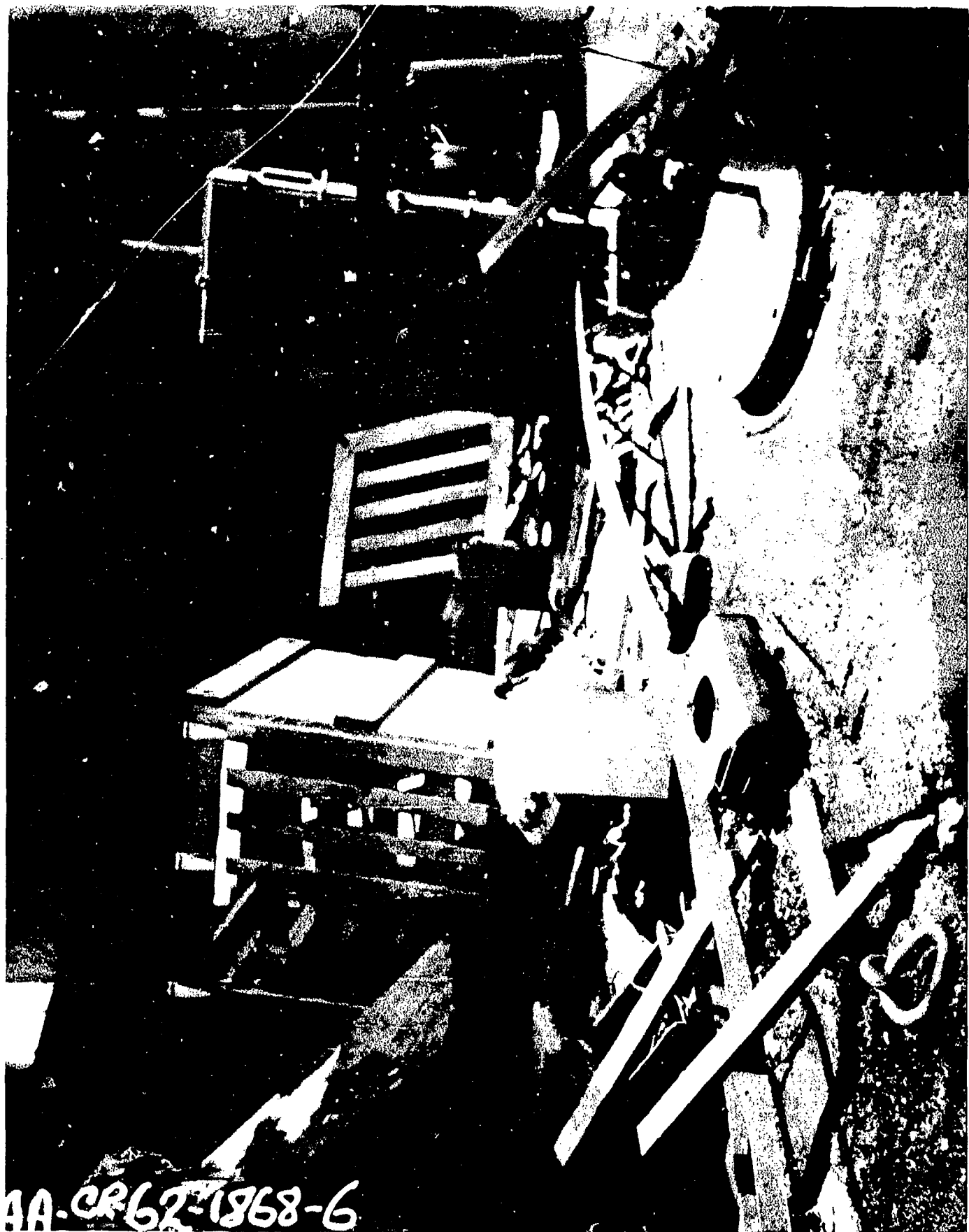


AA-CR-62-1868-12. Looking forward and to starboard at base of damaged No. 2 stack.

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AA-CR-62-1868-6. Superstructure deck looking aft from frame 94, port.

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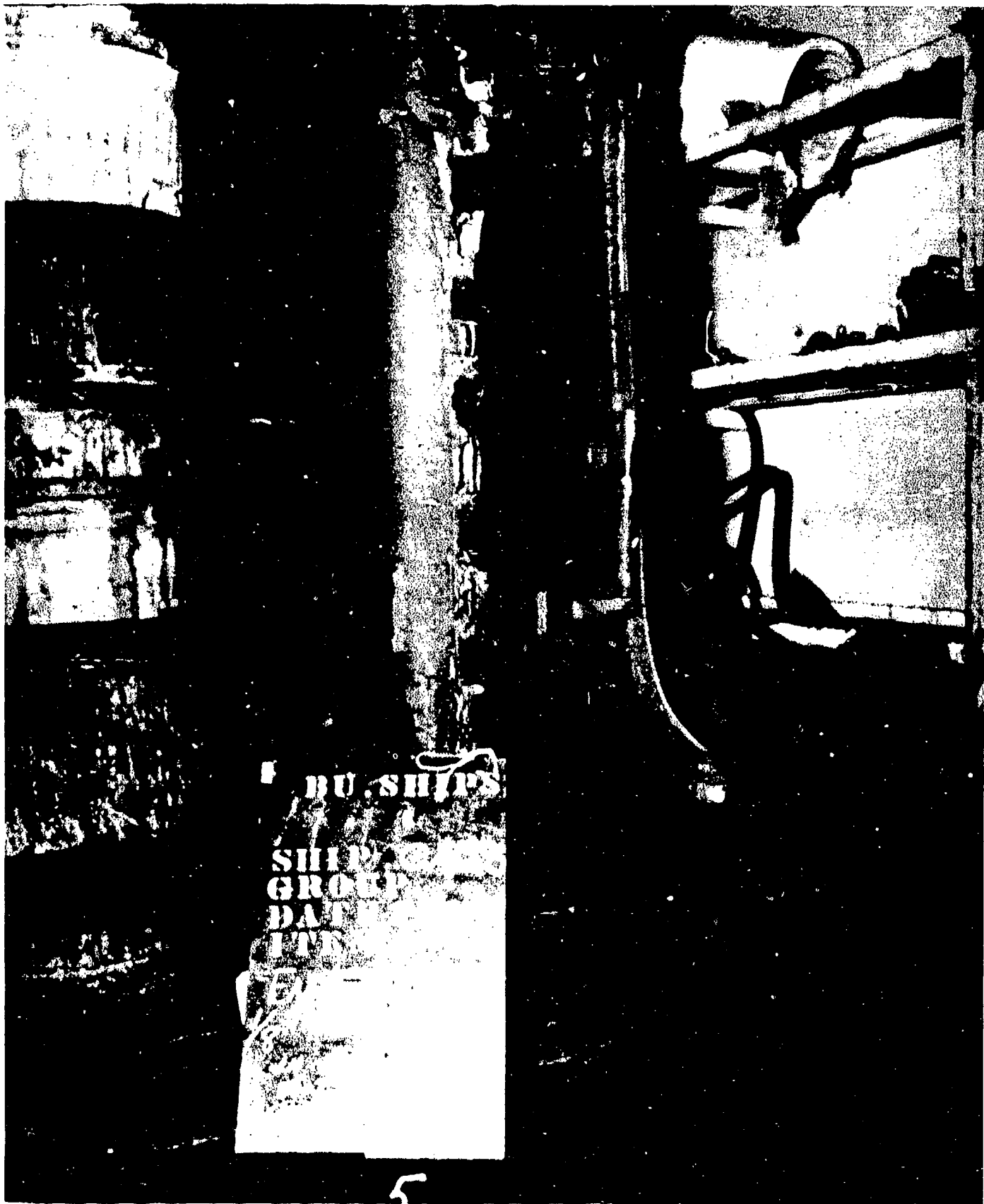
AA-CR-62-1868-4. Looking forward into port passageway, main deck, frame 92. Longitudinal outboard bulkhead, frames 90-92, is torn from deck and overhead welded connections. Note failure of welds and bulkhead in way of vertical connections at frame 90. Bulkhead bent inboard blocking passageway.

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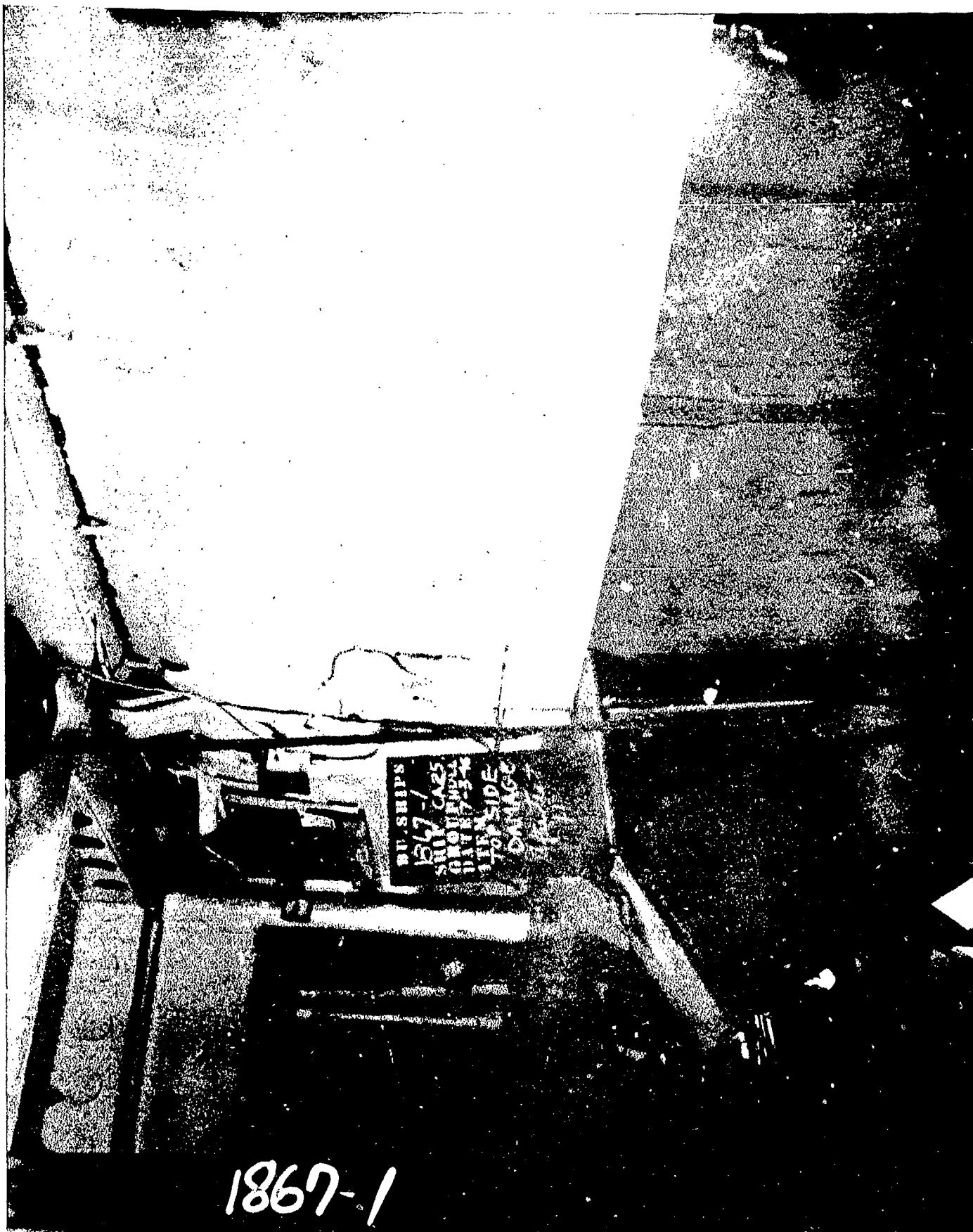
AA-CR-92-1782-5. Failure of 5 pound bulkhead in way of intermittent weld of stanchion at frame 90, starboard, main deck, (after cleanup)

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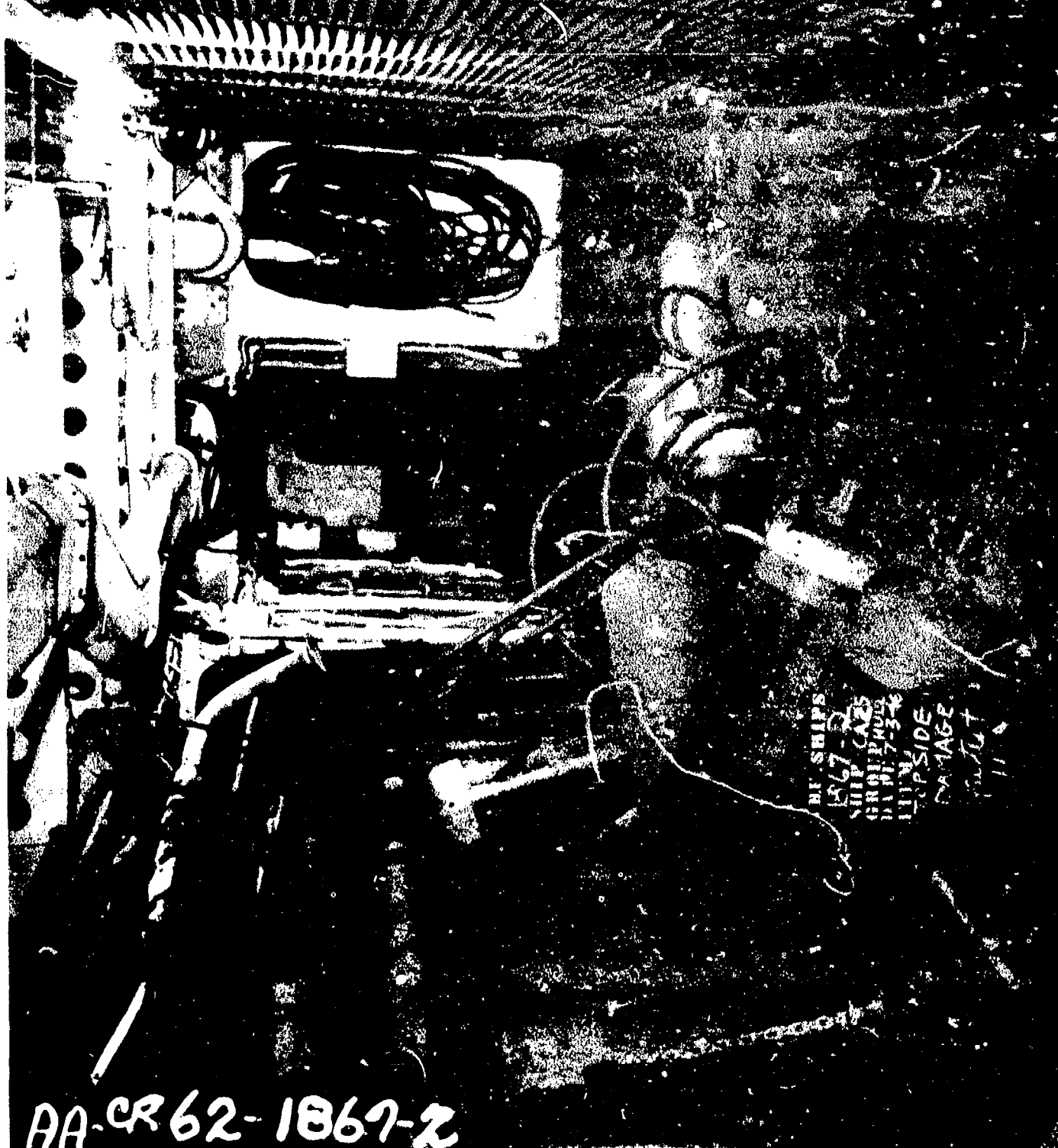
AA-CR-62-1867-1. Looking aft at dished inboard bulkhead of shipfitters shop, main deck, frames 74-81.

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AA-CR-62-1867-2. Looking aft through starboard main deck passage-way aft of frame 74. Showing dished outboard bulkhead and displaced equipment.

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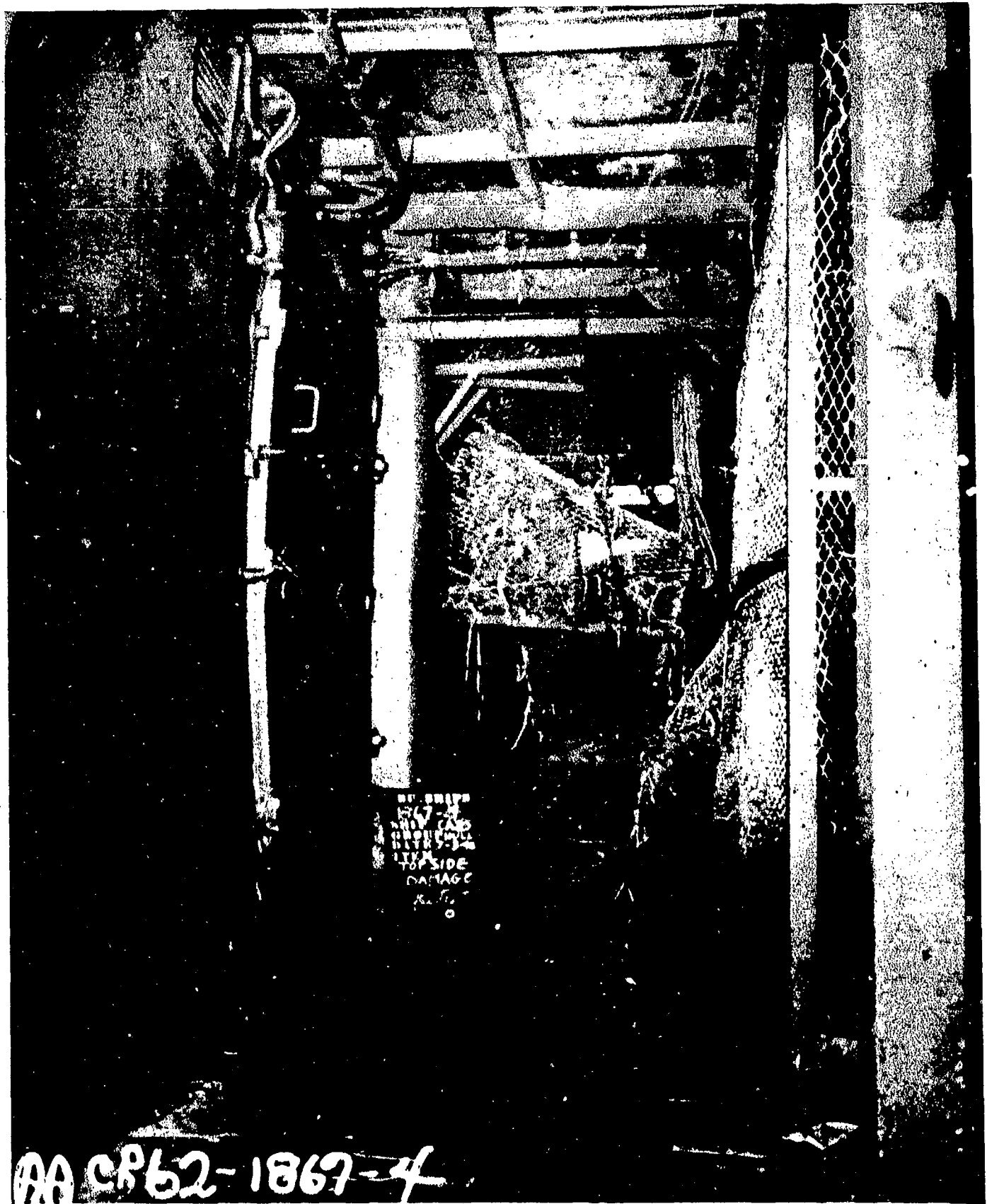
AA-CR-62-1867-3. Looking forward at door to boat engine repair shop, main deck, frame 92, starboard.

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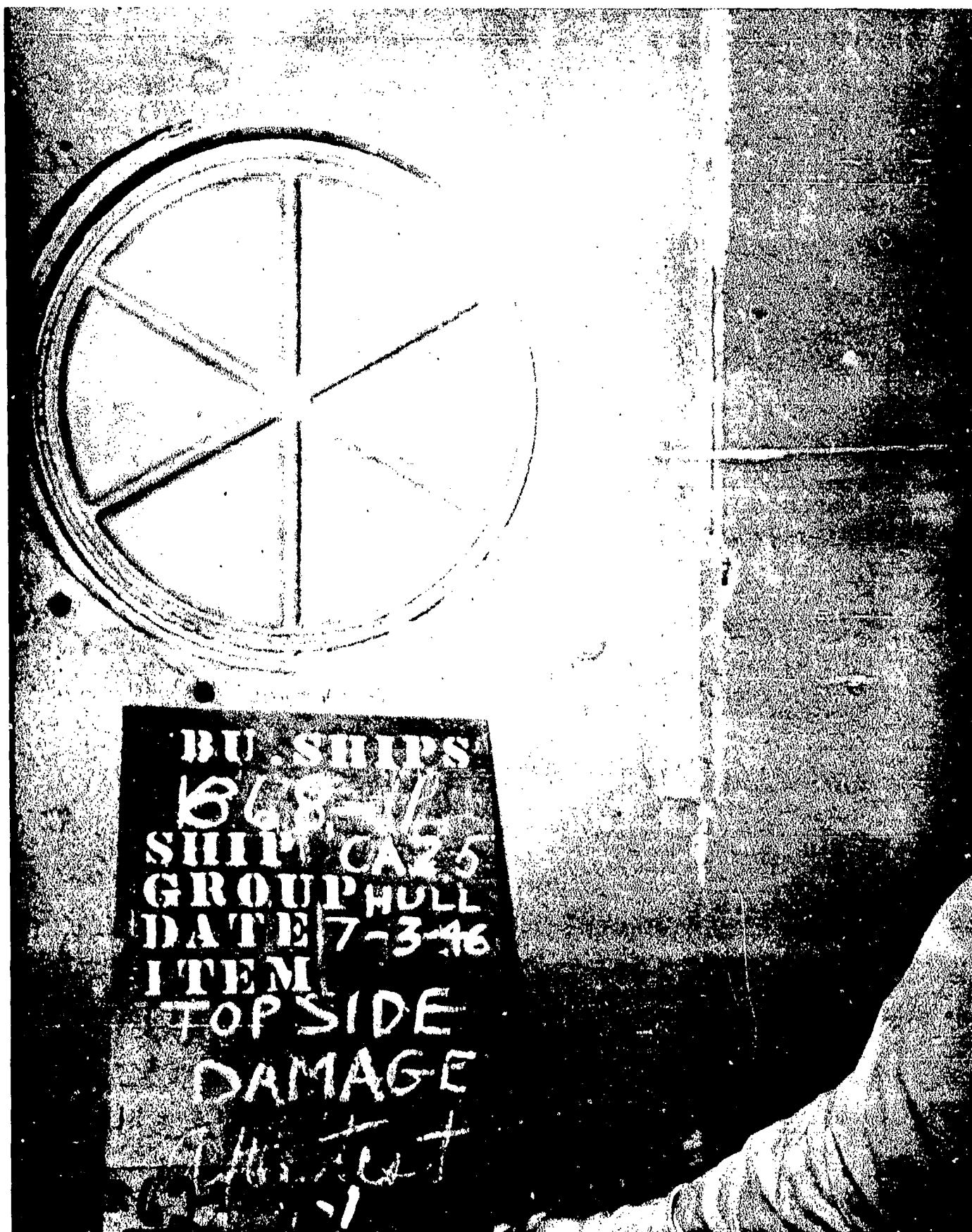
AA-CR-62-1867-4. Looking to port, dished bulkhead and torn expanded metal in transverse passageway, main deck, frame 96-97.

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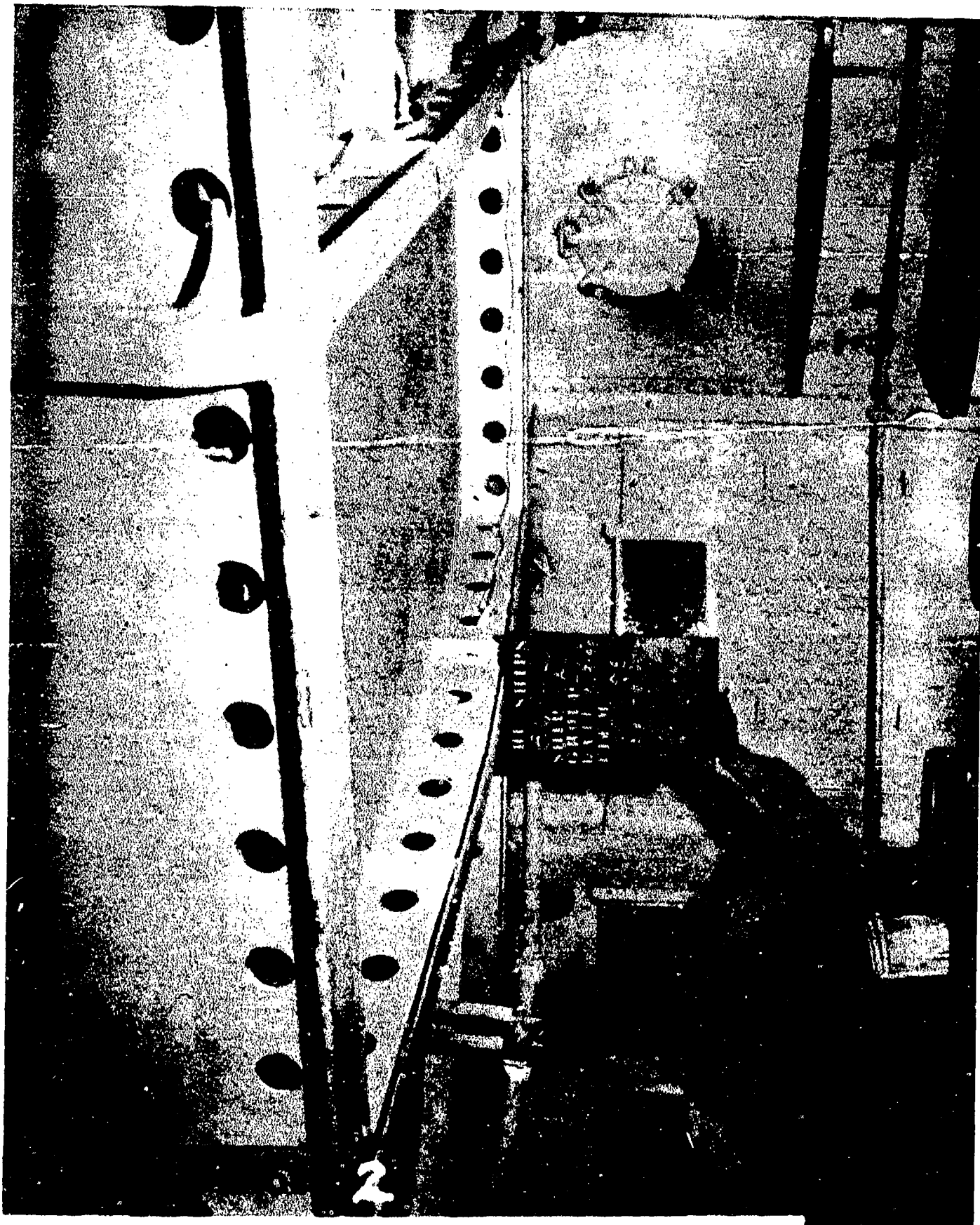
AA-CR-62-1868-1. Transverse bulkhead, frame 104, port, main deck, showing port frame blown inward and securing screws missing. Note old weld failure.

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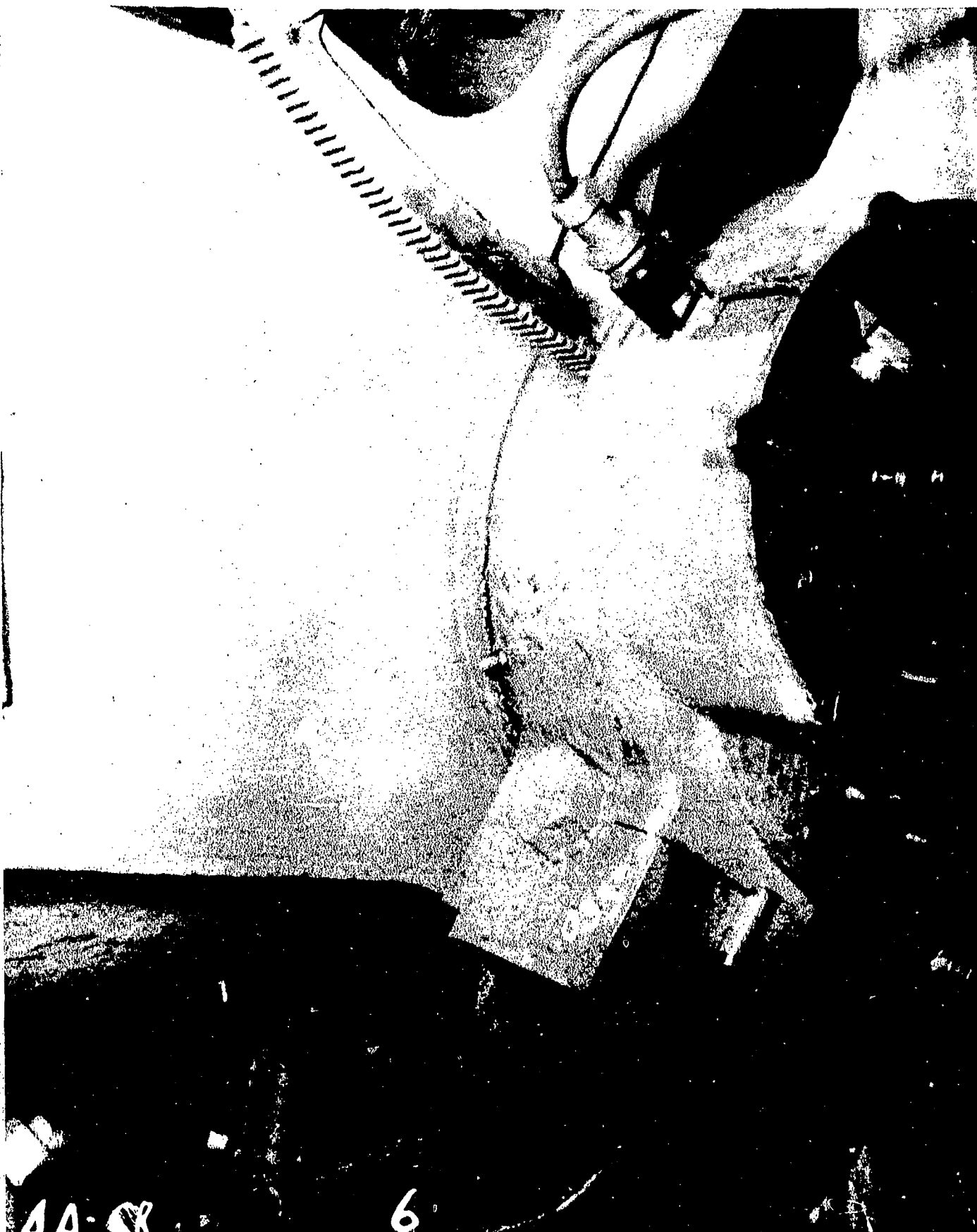
AA-CR-62-1868-2. Looking to port at bowed deck beam under super-structure deck. Crews washroom, main deck frame 106, port.

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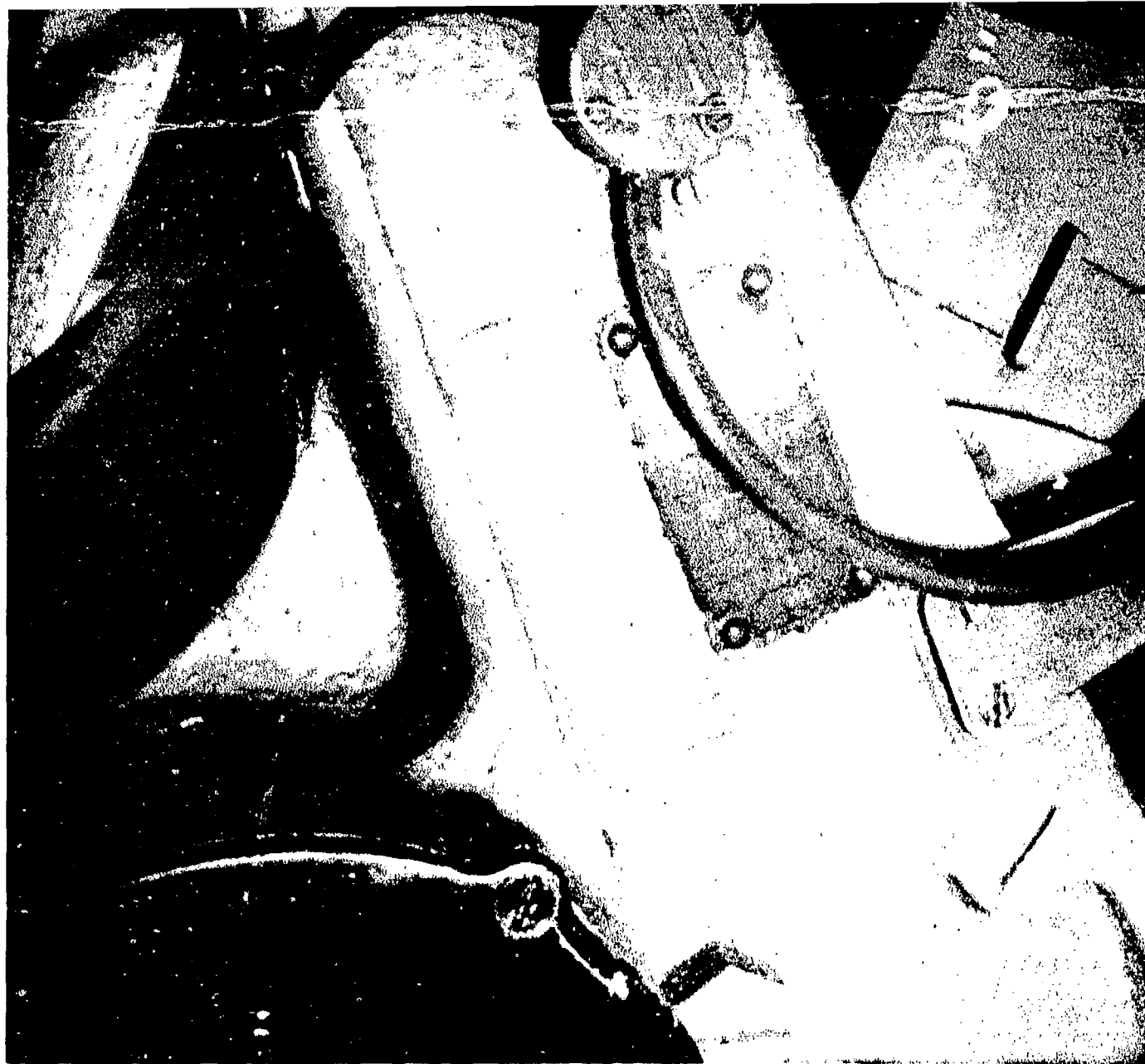
AA-CR-82-1915-6. Mount No. 1, left trunnion, looking to right and to the rear.

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AA-CR-82-1915-7. Mount No. 1, left trunnion, looking to right.

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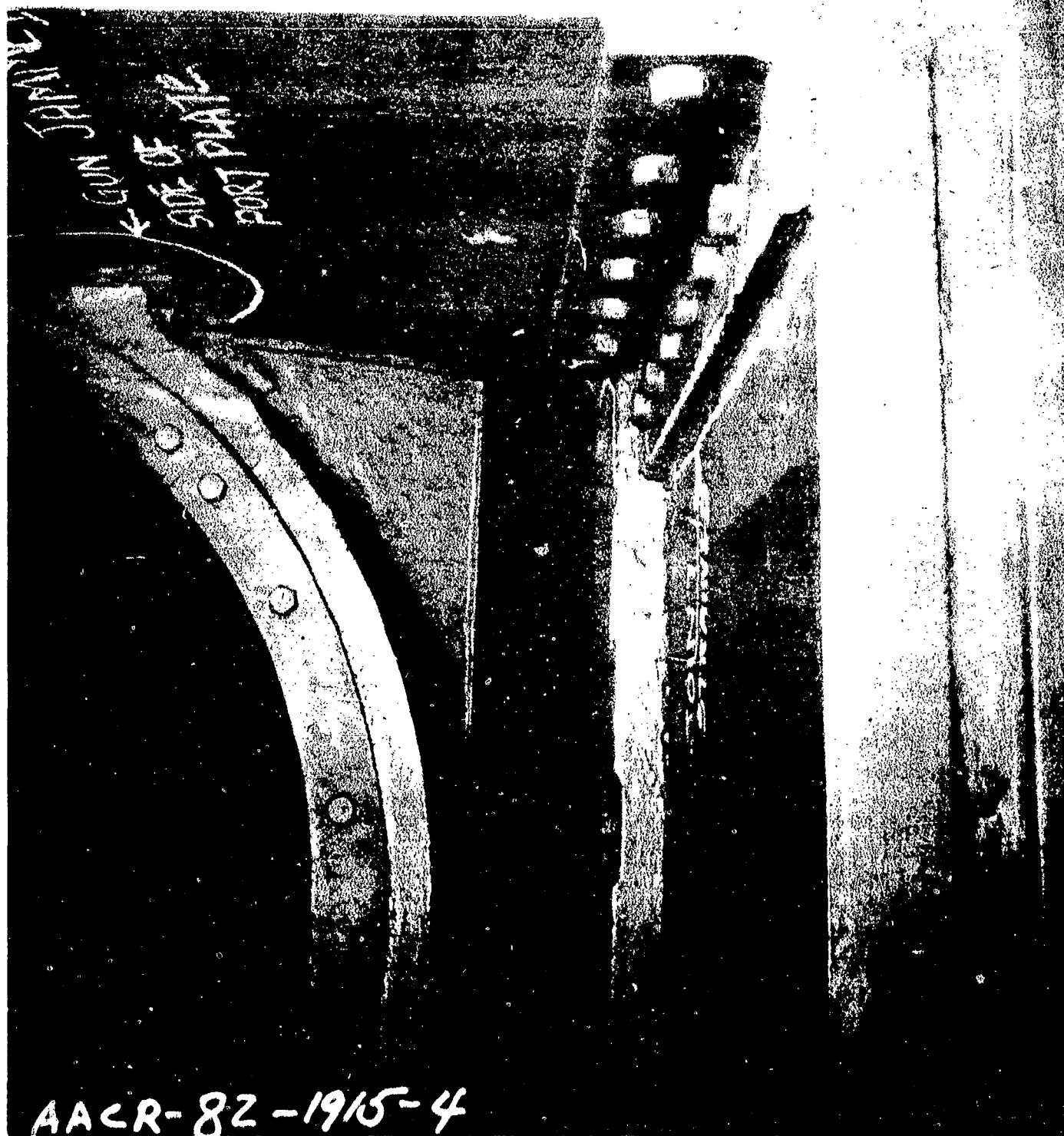
AA-CR-82-1915-8. Mount No. 2, left trunnion support looking to right and rear.

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AA-CR-82-1915-4. Mount No 1, gun port, left side looking from the outside.

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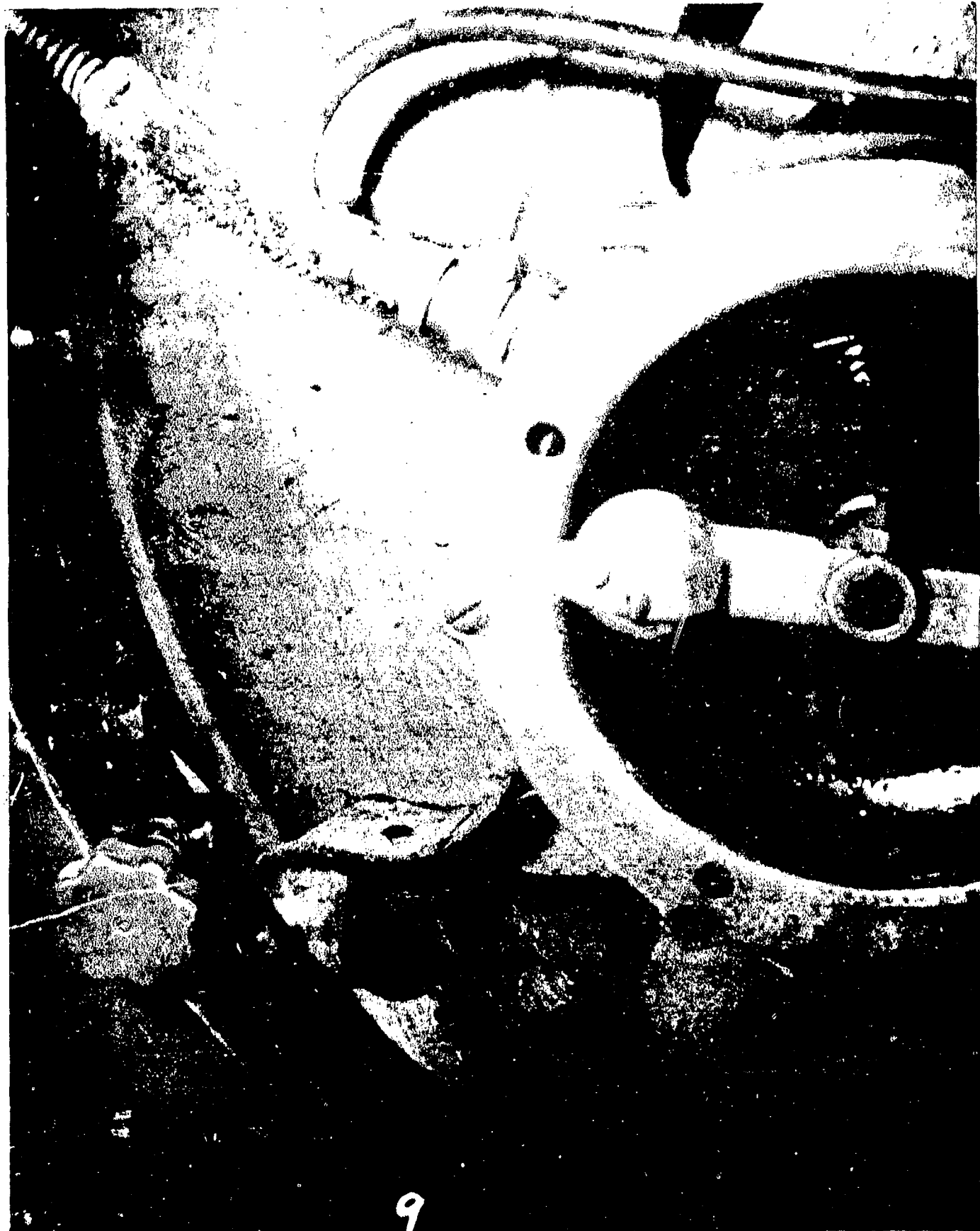
AA-CR-82-1915-5. Mount No. 1, left trunnion to support, looking to right and to rear. Structural bracket bracing the trunnion support to the shelf plate.

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AA-CR-82-1915-9. Mount No. 2, gun port gas seal, left side, looking to right.

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AA-CR-65-1728-10. Looking aft and inboard at scorched paint on port side of mount 2.

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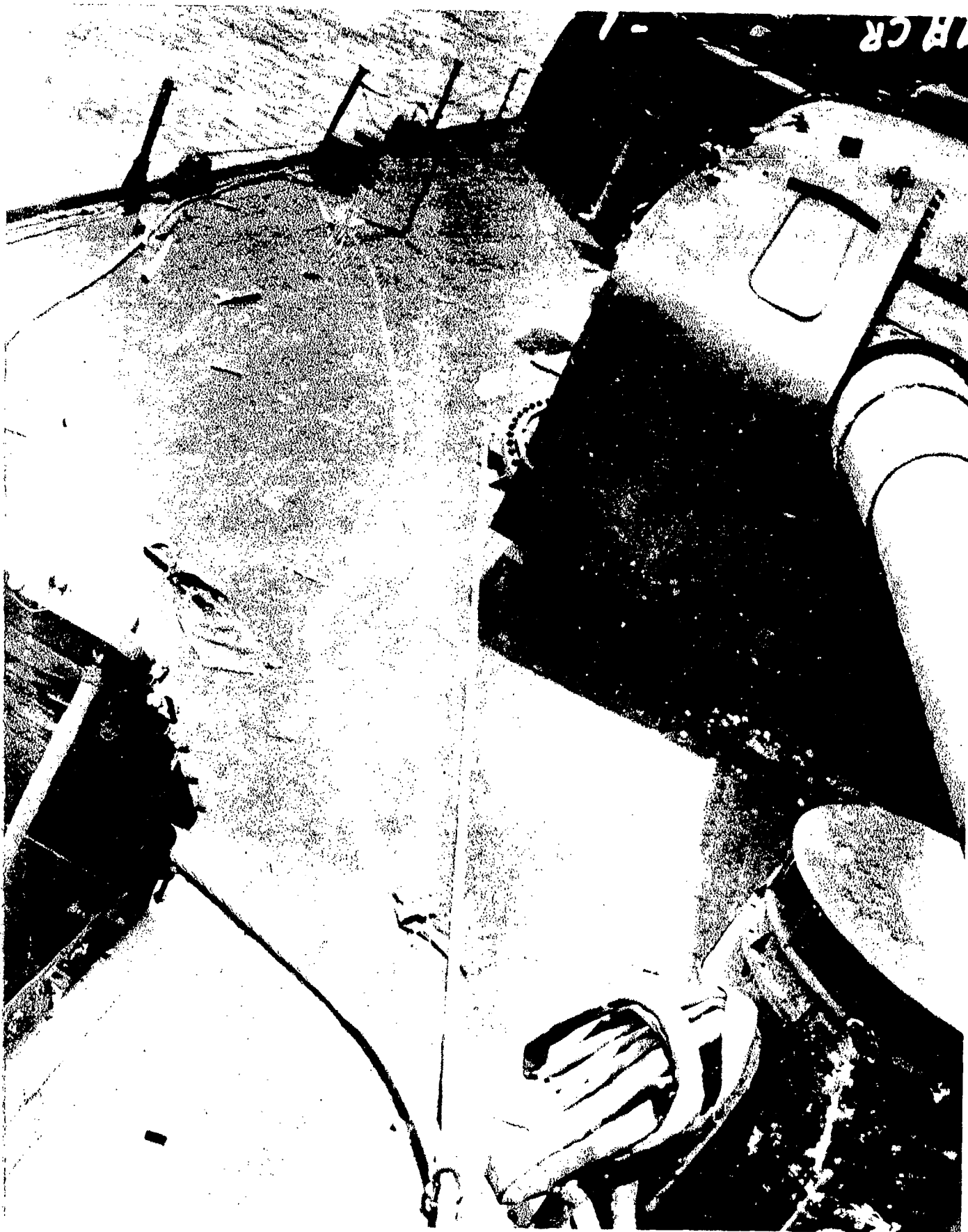
AA-CR-65-1729-12. Main deck, frame 130, starboard. Typical shadow imprint.

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AA-CR-65-1730-1. Main deck, frame 120 to 140 port, showing shadow of cable on deck.

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AA-CR-62-1866-5. Looking forward and to starboard at sagged area of main deck, frames 61 to 73.

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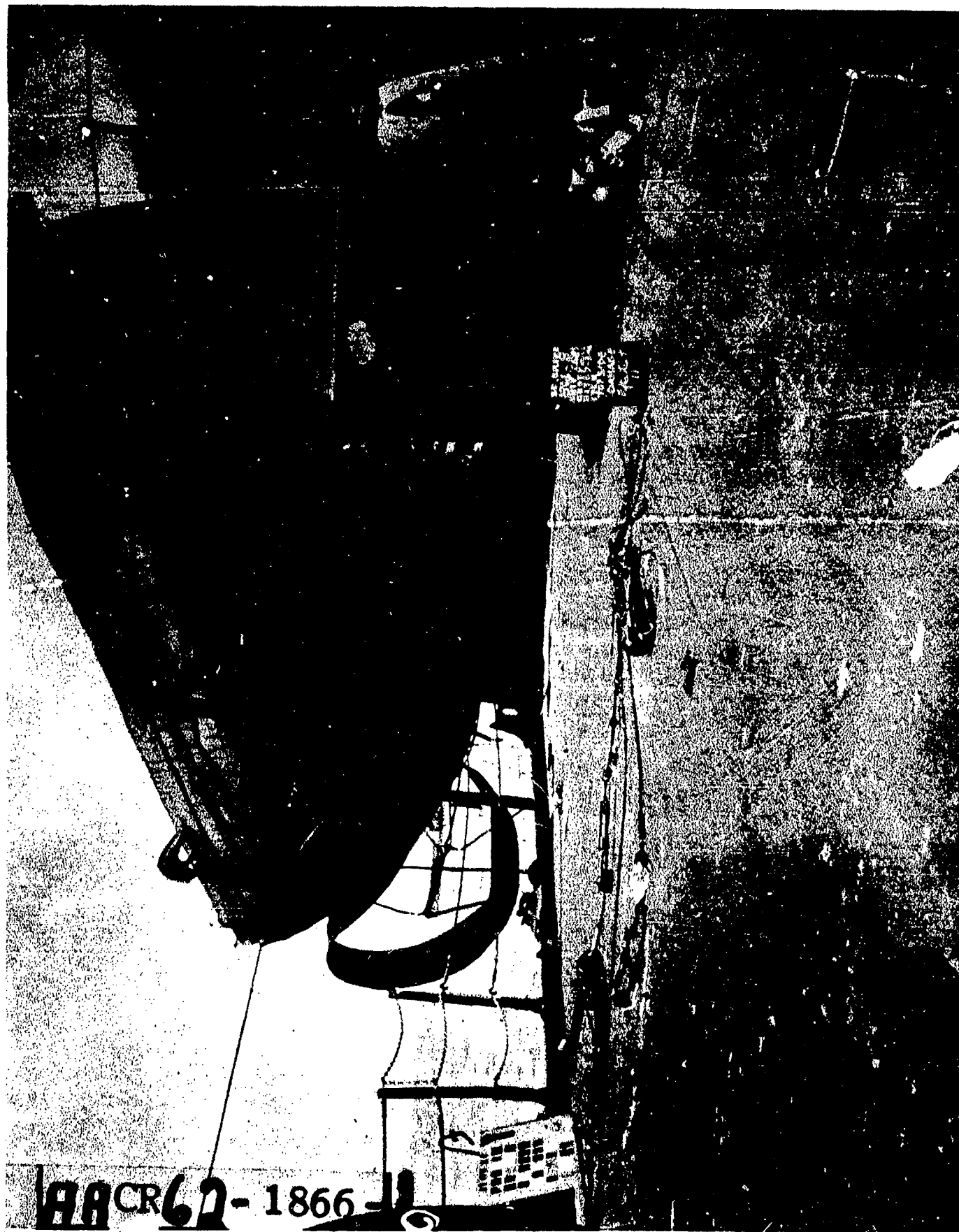
AA-CR-62-1866-7. Looking forward at deflection of main deck aft of frame 61 and at damage to superstructure.

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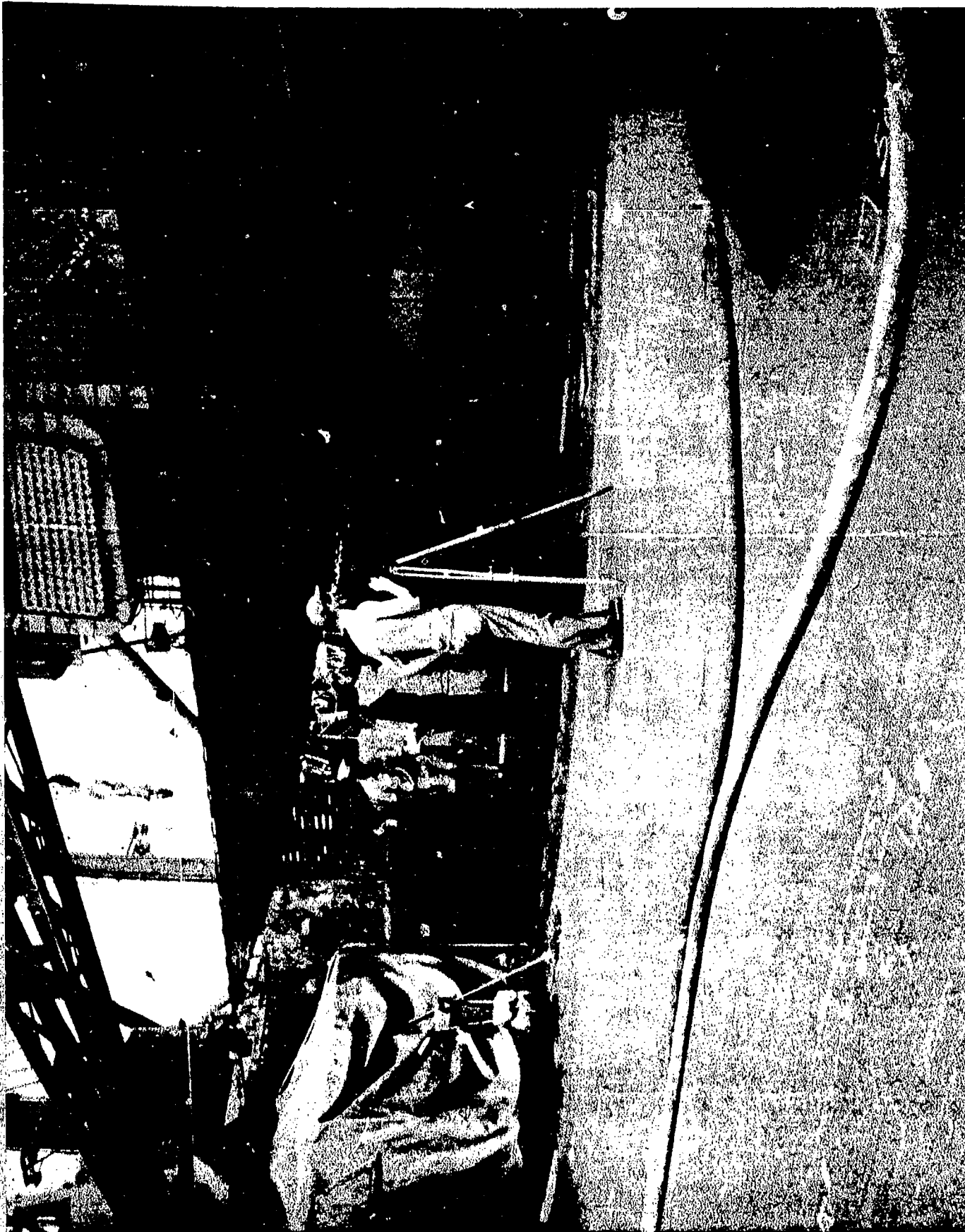
AA-CR-62-1866-8. Airplane hold down straps on main deck, frame 68, starboard; all that remained of plane. Note damaged after deck.

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AA-CR-88-2104-3. General view, looking forward and to starboard on main deck from frame 70, port.

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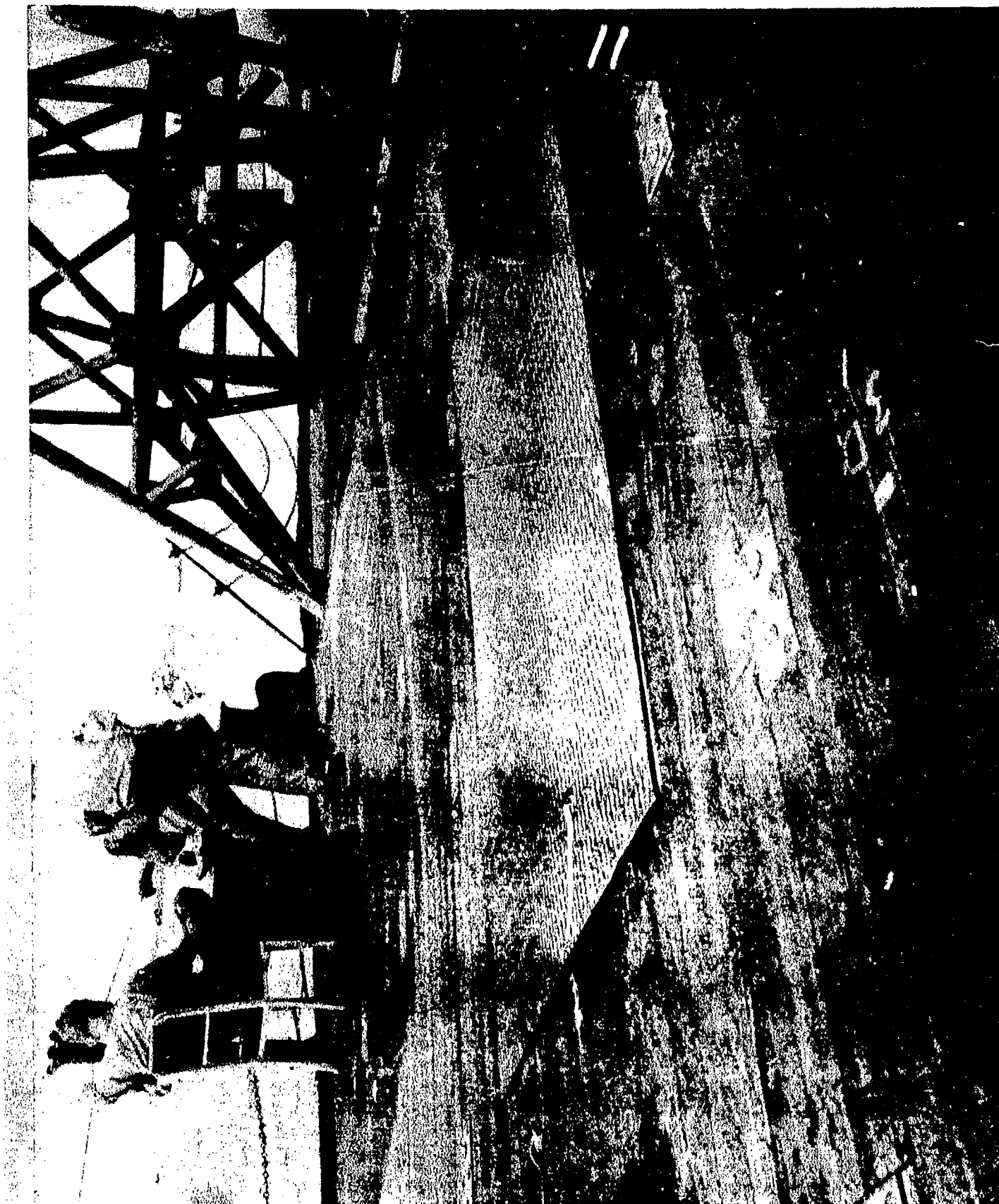
AA-CR-88-2085-10. Looking forward on centerline from stern. Showing deflection of deck.

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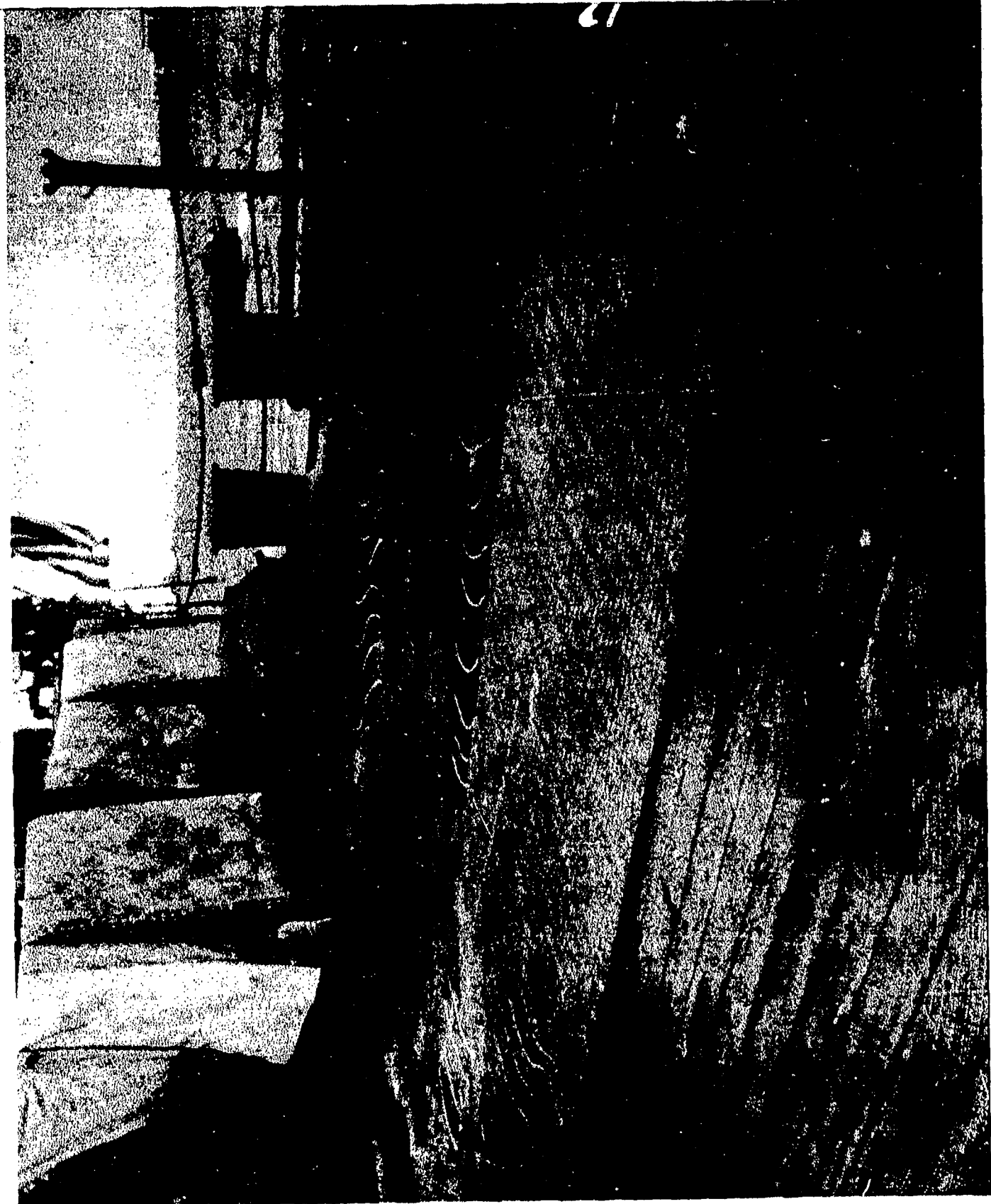
AA-CR-88-2085-11. Looking to port on stern main deck, near frame 139. Showing deflection of deck.

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AA-CR-88-2085-12. Looking to starboard on stern, main deck, near frame 139. Showing deflection of deck.

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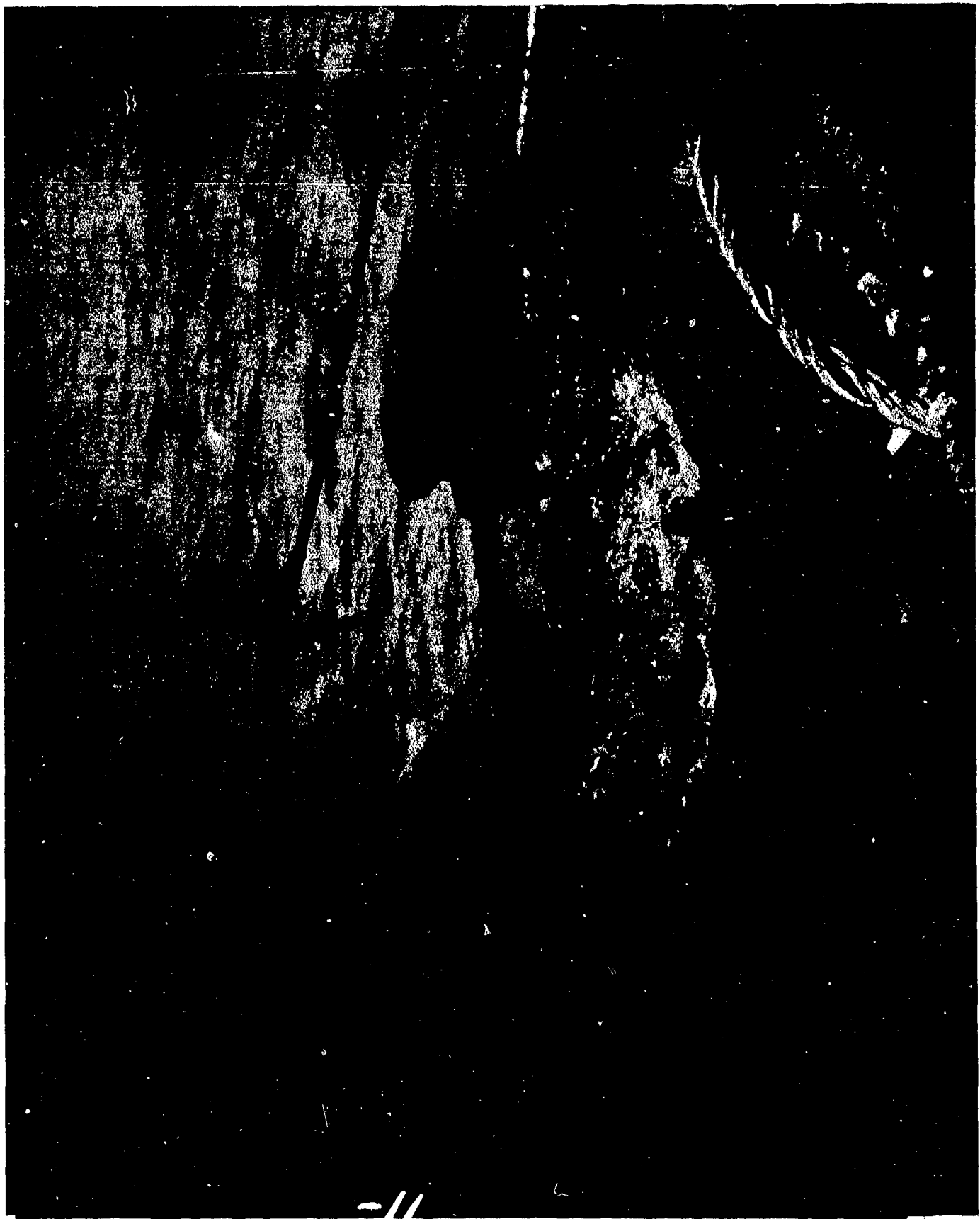
AA-CR-62-1867-7. Cotton mattress chafing mat around cable, main deck, frame 130, not burned.

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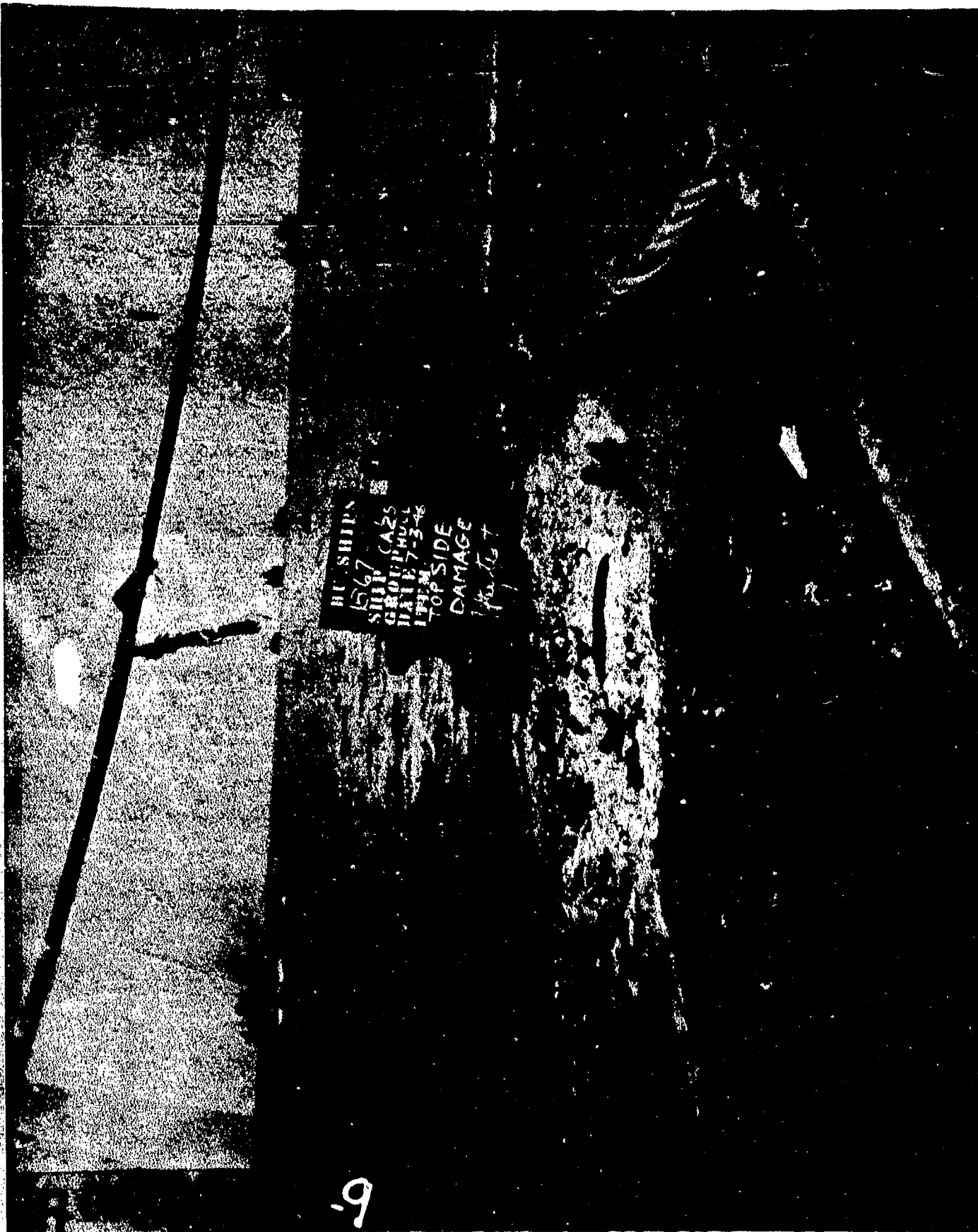
AA-CR-65-1729-11. Damage to planking on main deck at stern caused by fire in cordage.

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AA-CR-62-1867-9. Thrum mat around same cable as in 1867-7, main deck at stern. Mat and wood deck burned. Cable burned and parted.

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AA-CR-62-1861-8. Looking to port at frame 28 starboard. Showing firehose blown from rack and across deck to port.

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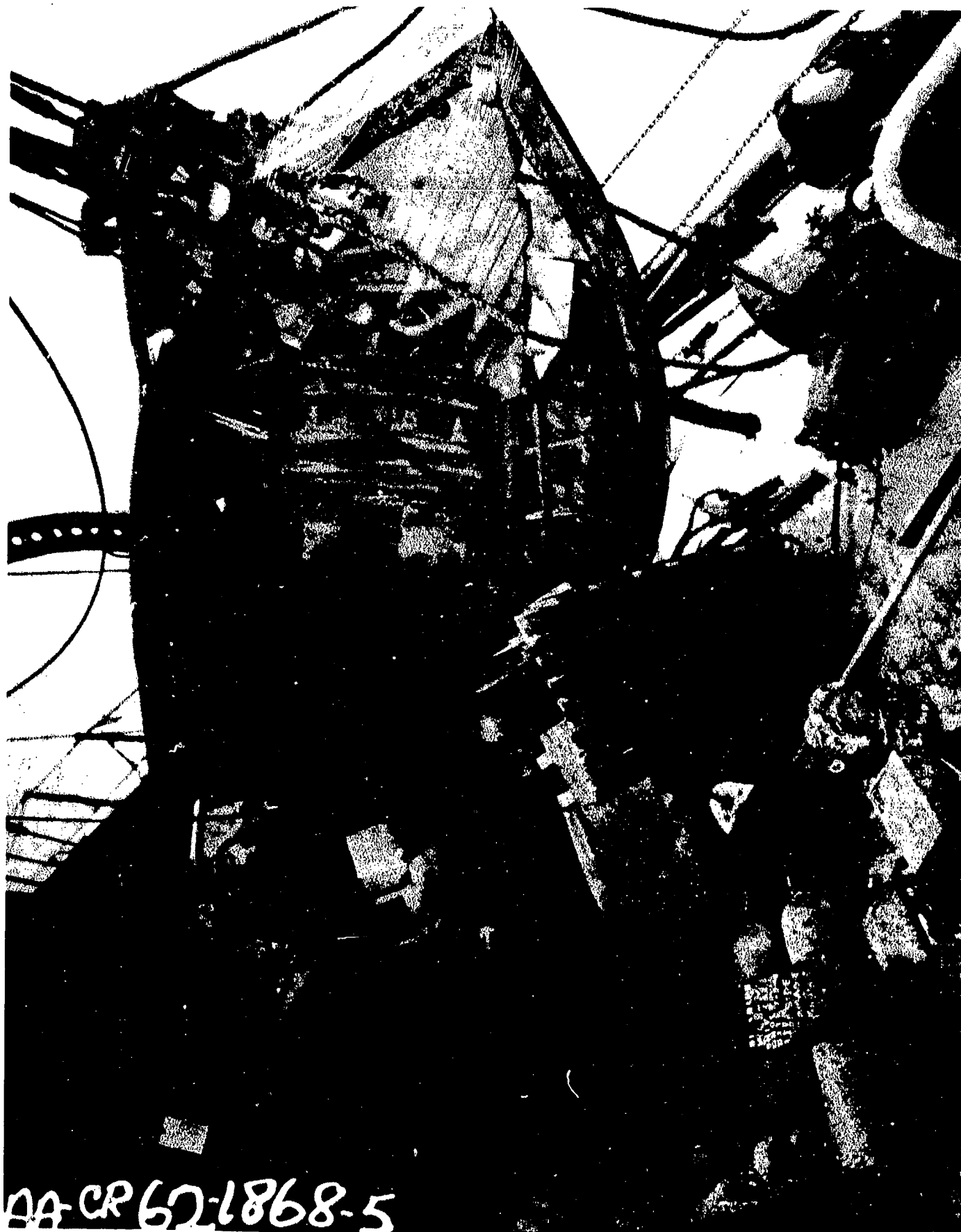
AA-CR-62-1861-4. Looking aft on forecastle showing airplane wing float and part of aileron believed to have come from plane at frame 65, starboard. Note broken life raft.

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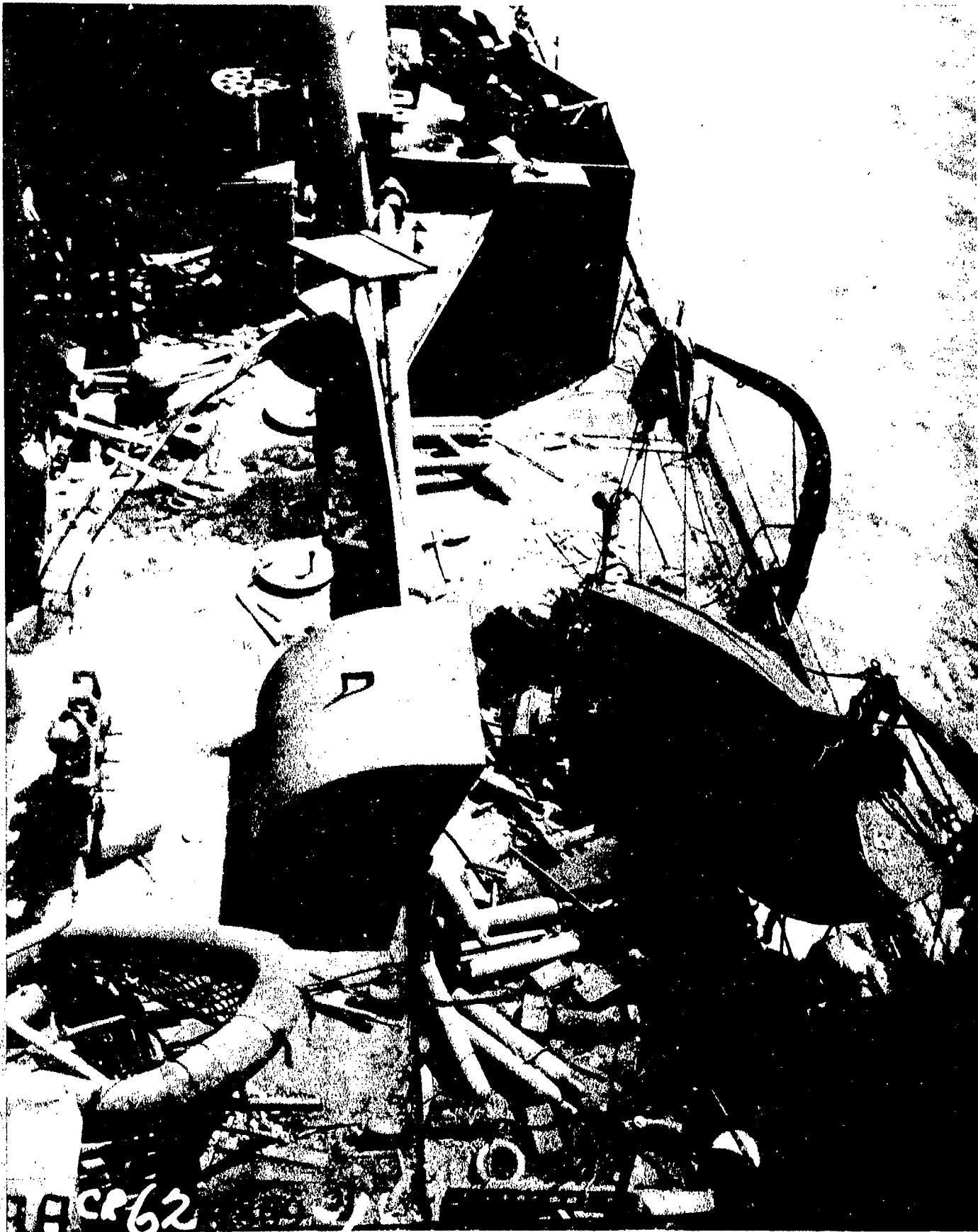
AA-CR-62-1868-5. Looking down on boat stowage, main deck frame 93 to 100, port.

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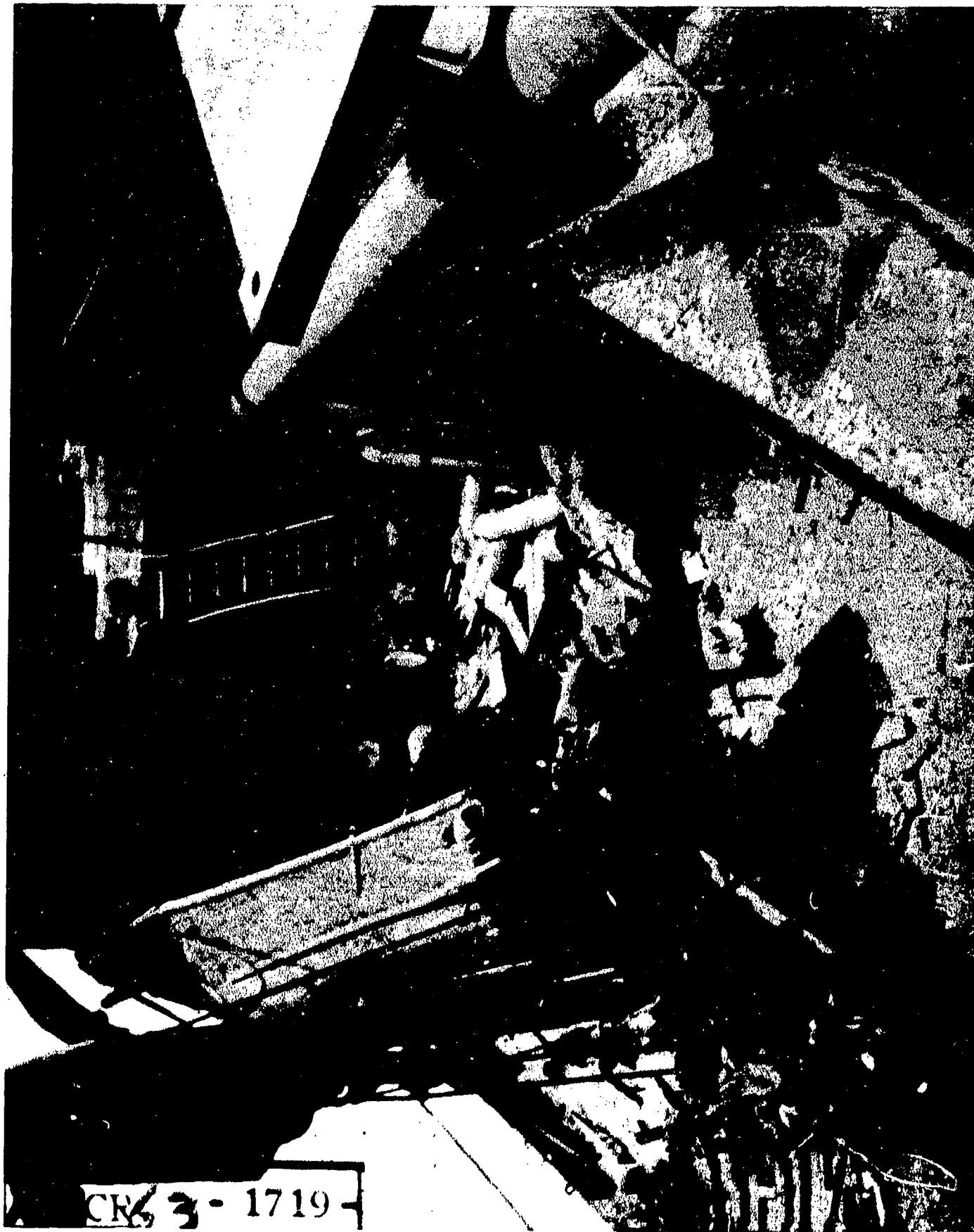
AA-CR-62-1869-1. Looking down and to port from 36" searchlight platform, frame 88.

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AA-CR-63-1719-4. Damage to boat at frame 95, port, main deck, looking forward from superstructure.

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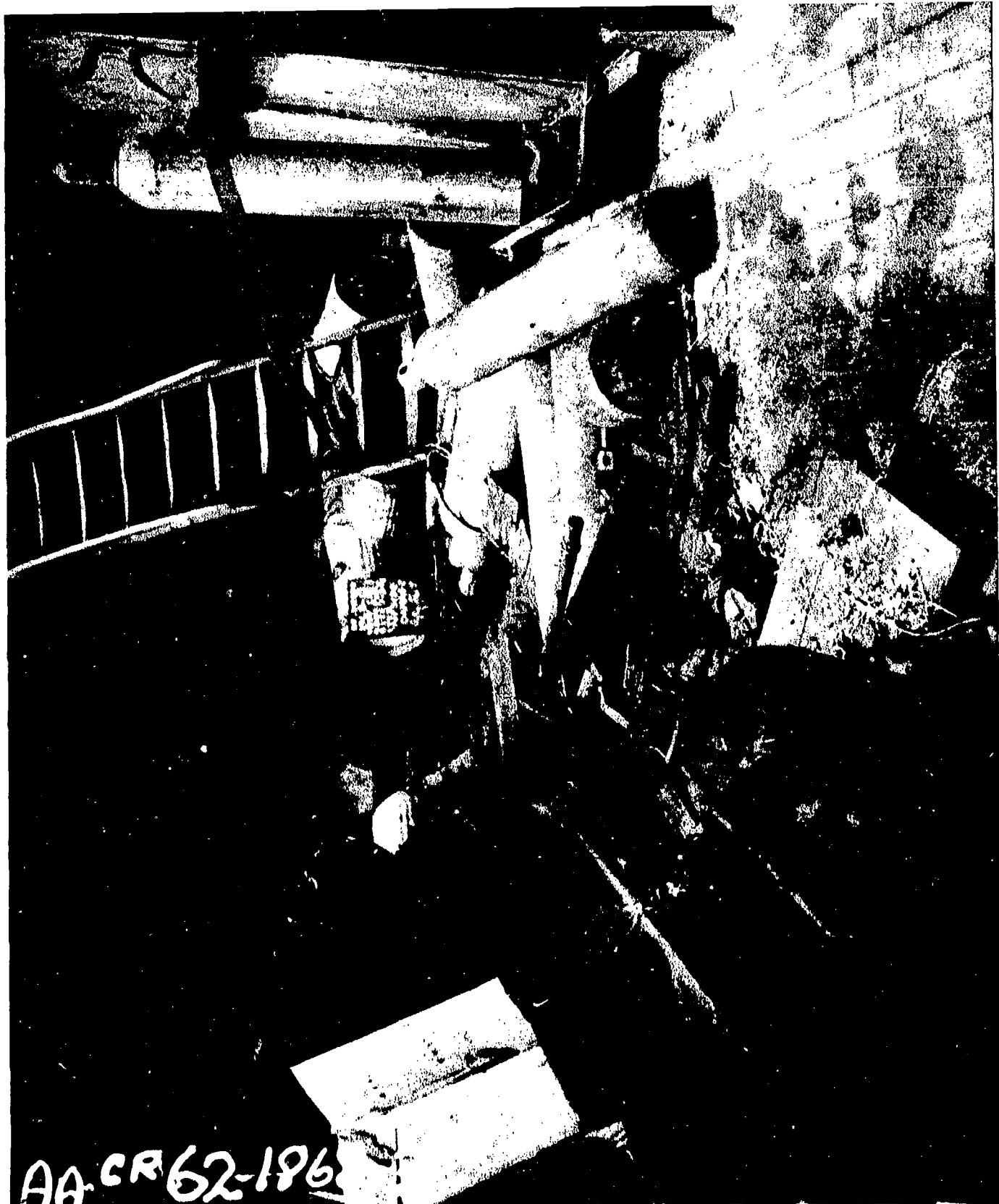
AA-CR-62-1867-12. Looking forward at demolished motor whaleboat in stowage. Main deck, frame 95, port.

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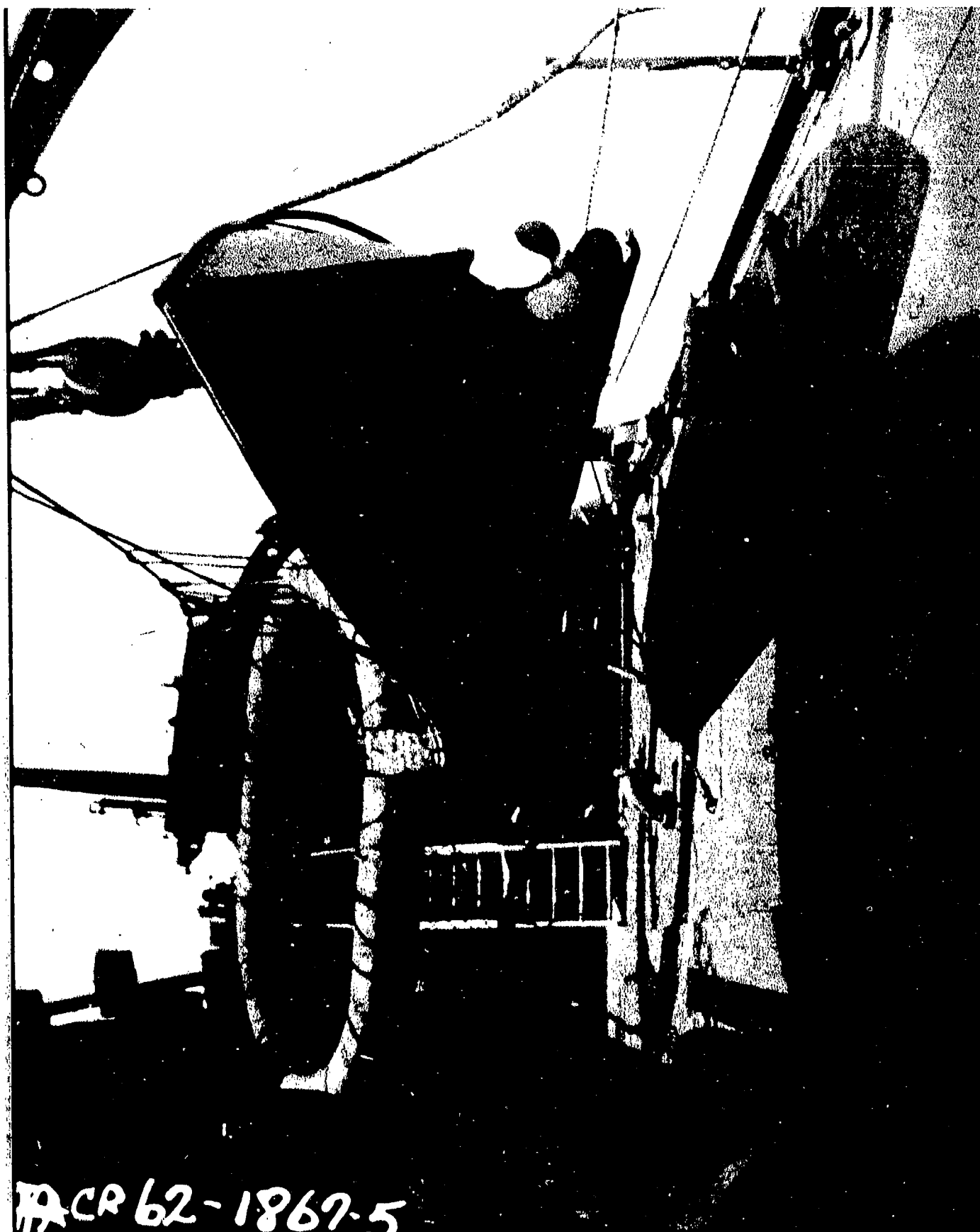
AA-CR-62-1868-3. Looking forward at demolished boat and displaced
equipment, main deck, frames 90 to 96, port.

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AA-CR-62-1867-5. Looking forward at main deck starboard, frames 92 to 100.

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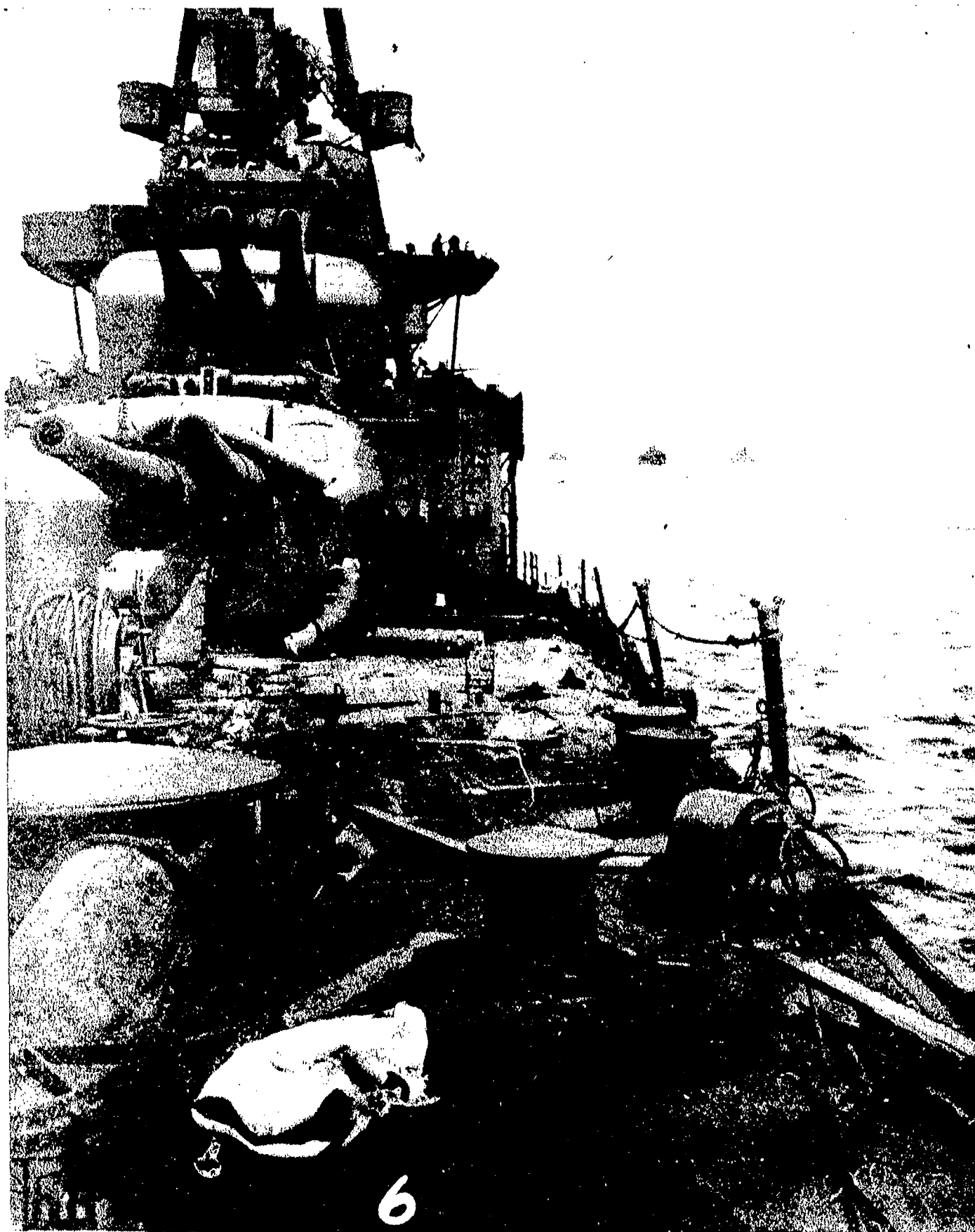


AA-CR-62-1869-2. Looking down and to starboard from 36" searchlight platform, frame 88.

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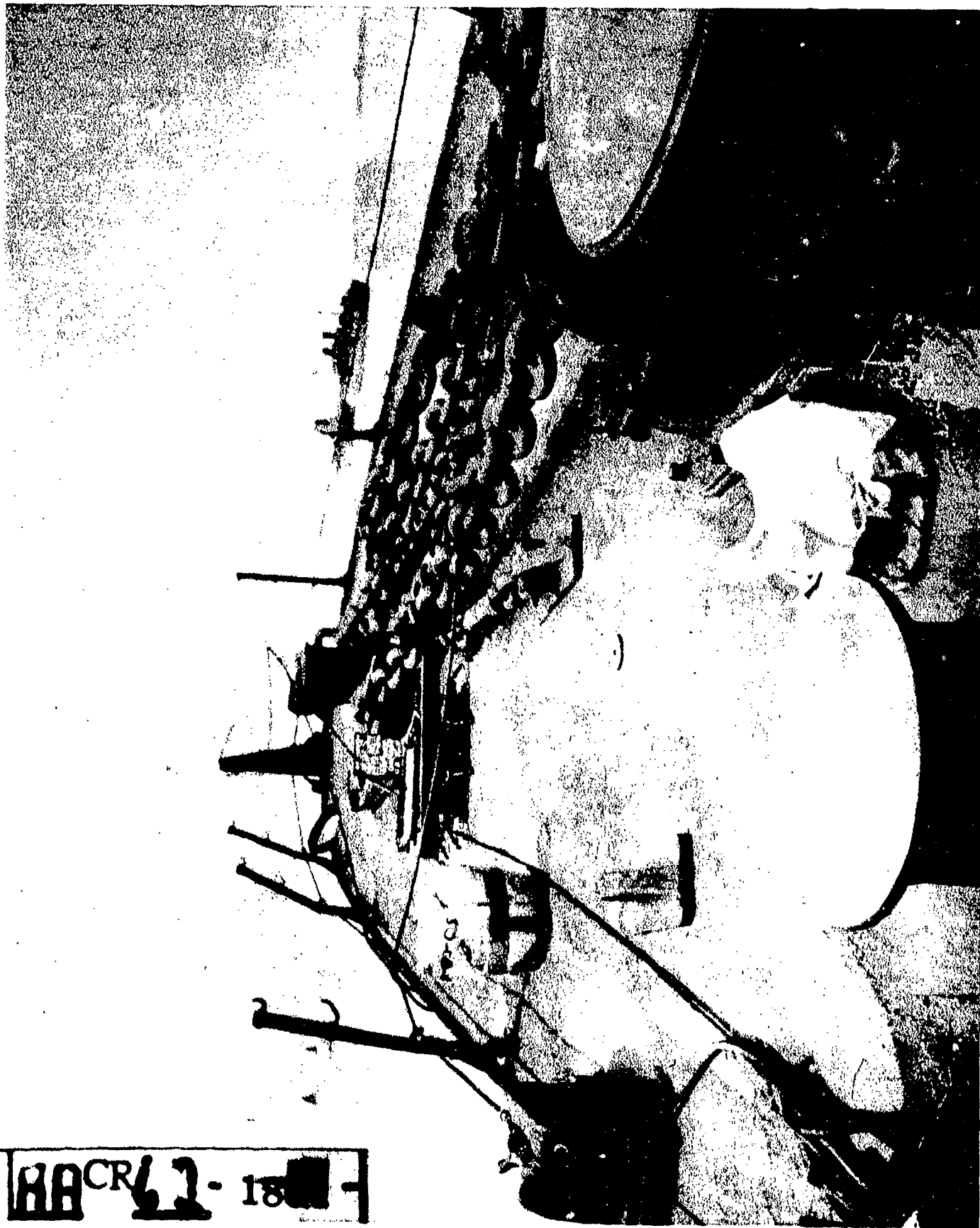
AA-CR-62-1861-6. Looking aft on forecastle showing damage to life lines, stanchions, scorched deck, and broken life raft.

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AA-CR-62-1861-7

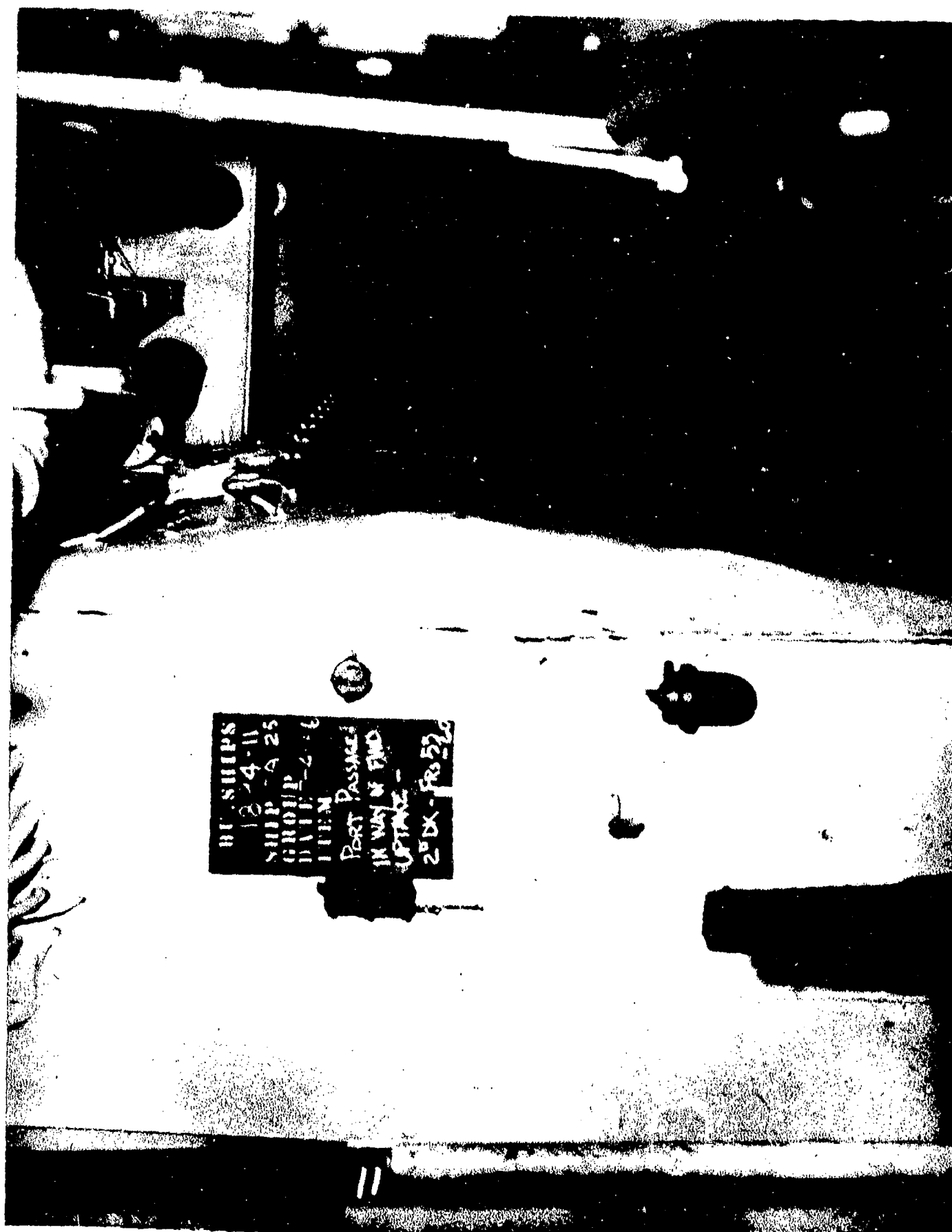
AA-CR-62-1861-7. Looking forward on forecastle showing damage to lifeline stanchions.

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AA-CR-80-1894-11. B-201L. Port passageway, frames 55 to 62, port, second deck showing distortion of inboard bulkhead adjacent forward uptakes.

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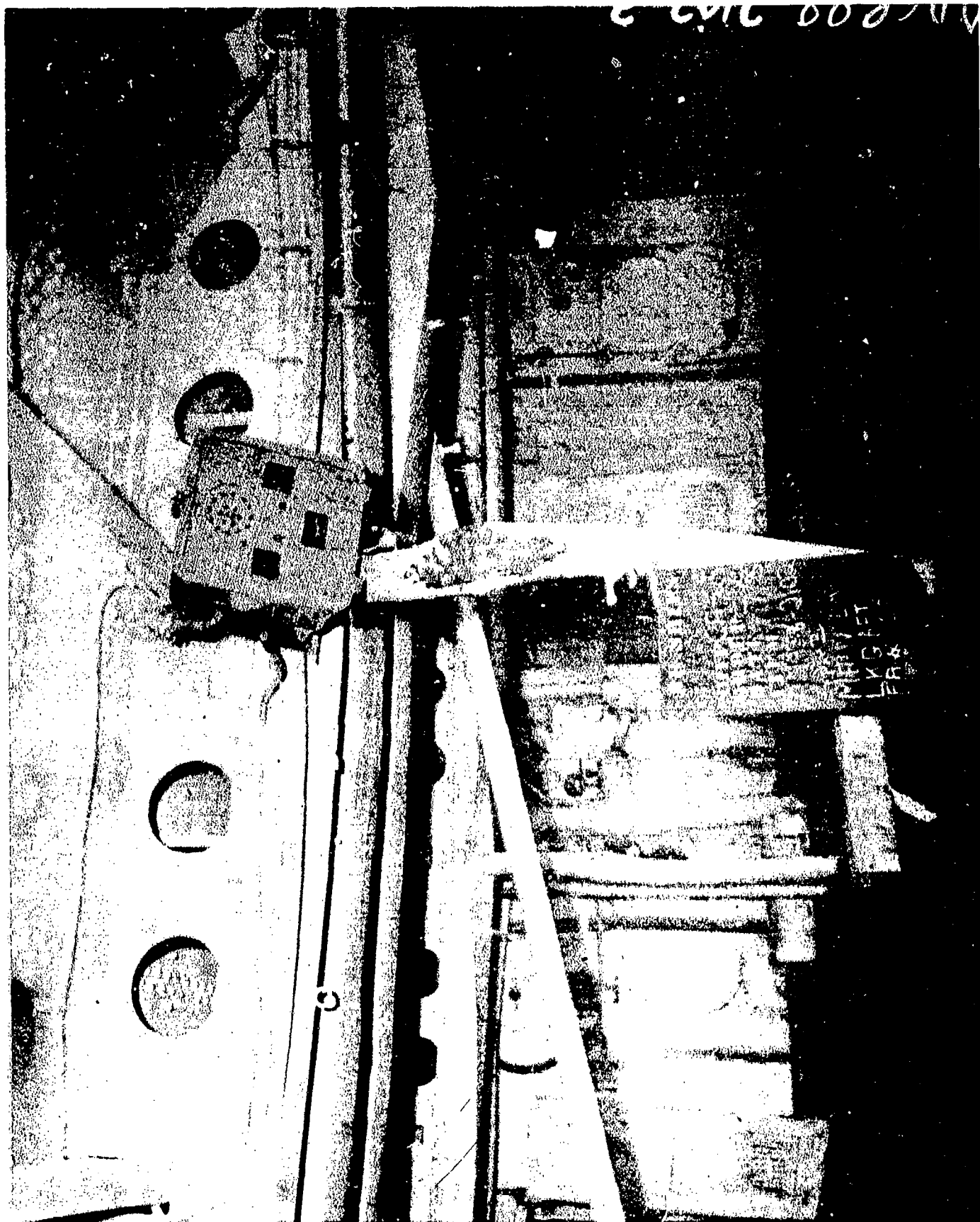
AA-CR-80-1894-8. C-201L. Looking forward and to starboard from frame 70, port. Showing interior damaged caused by deflection of main deck. Note hot waterline sagging.

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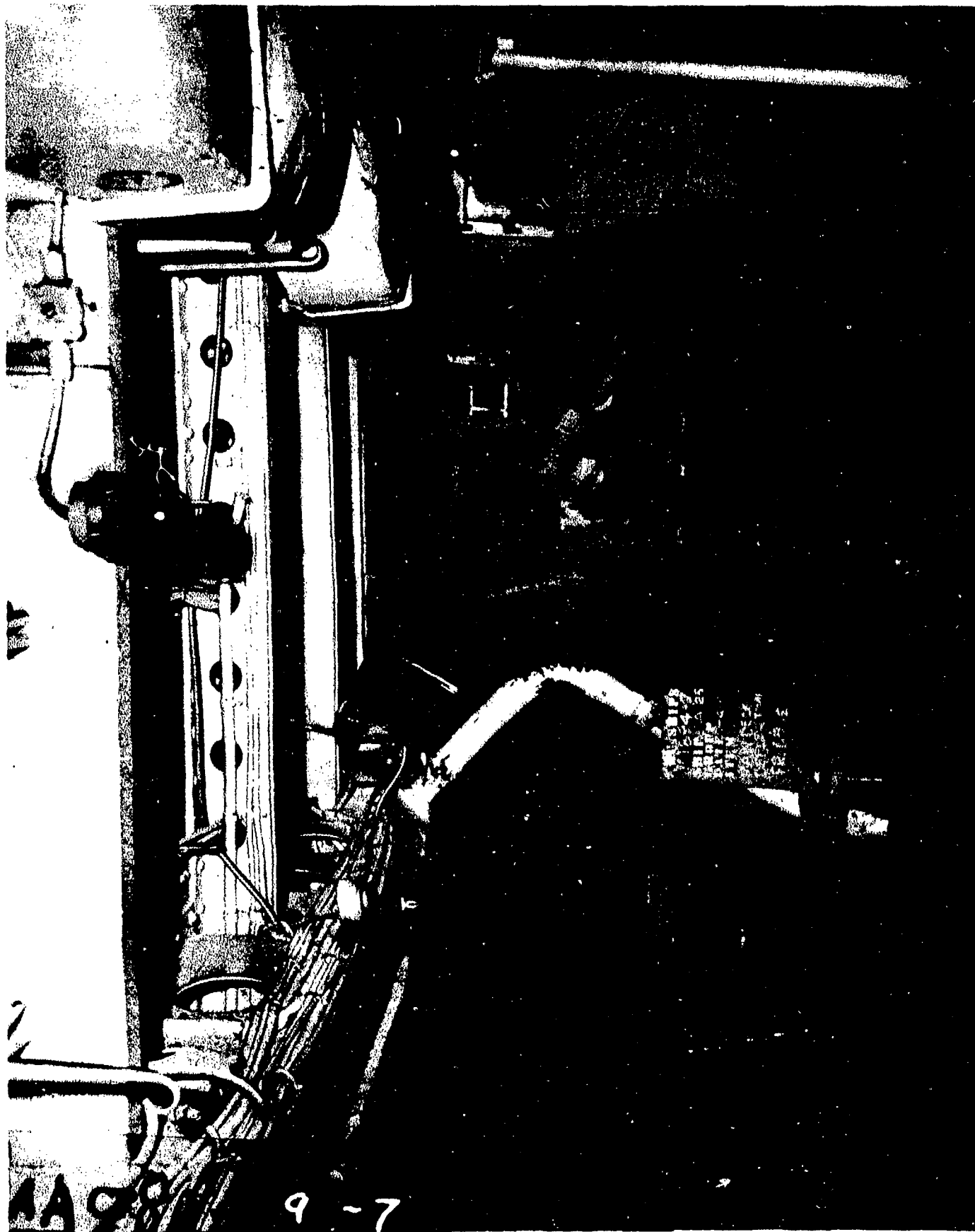
AA-CR-80-2102-3. C-201L. Looking aft at damage to transverse girders and supporting stanchions, frames 65 and 68.

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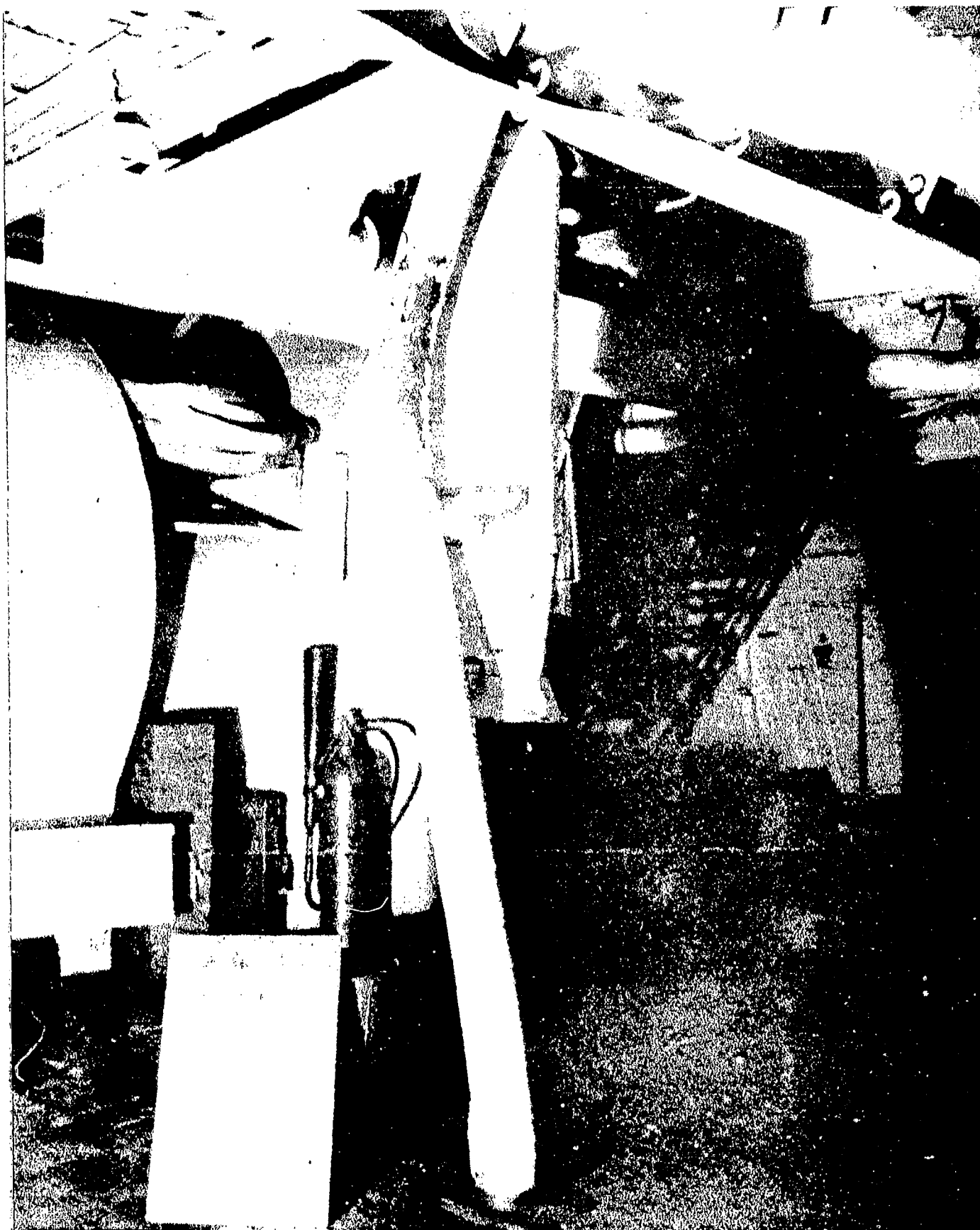
AA-CR-80-1894-7. C-201L. Looking to port from frame 65, centerline, at distortion of support system under main deck. Ventilation ducts damaged. Cables and fixtures on the underside of the deck are not damaged.

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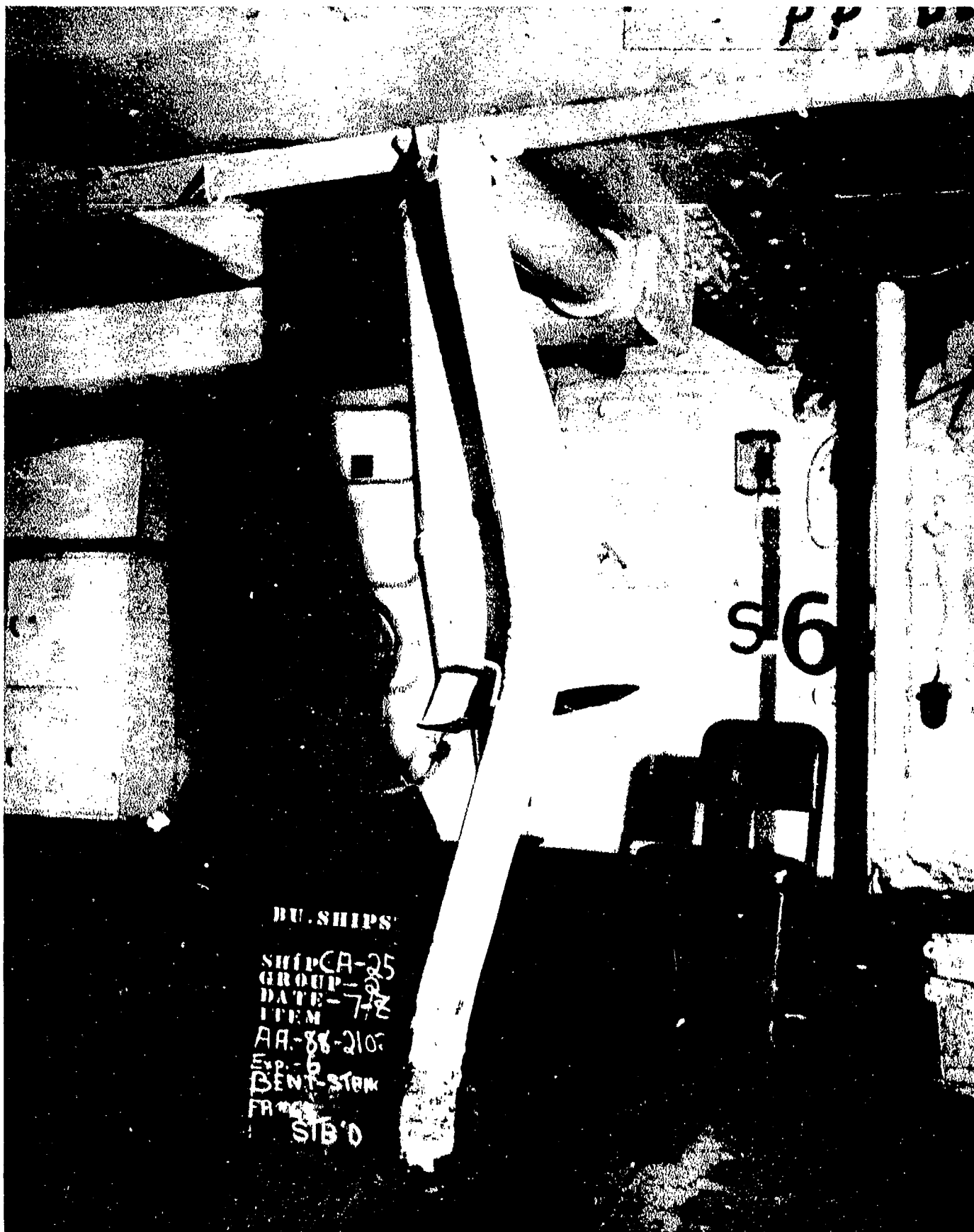
AA-CR-88-2102-8. C-201L. Looking forward at bent stanchion supporting frame 65, port.

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BU SHIPS
 SHIP CA-25
 GROUP - 2
 DATE - 7-78
 ITEM
 AA-88-2107
 EXP - 6
 BENT STAN
 FR 100
 STB'D

AA-CR-88-2102-7. C-201L. Looking forward at bent stanchion supporting frame 65. Starboard.

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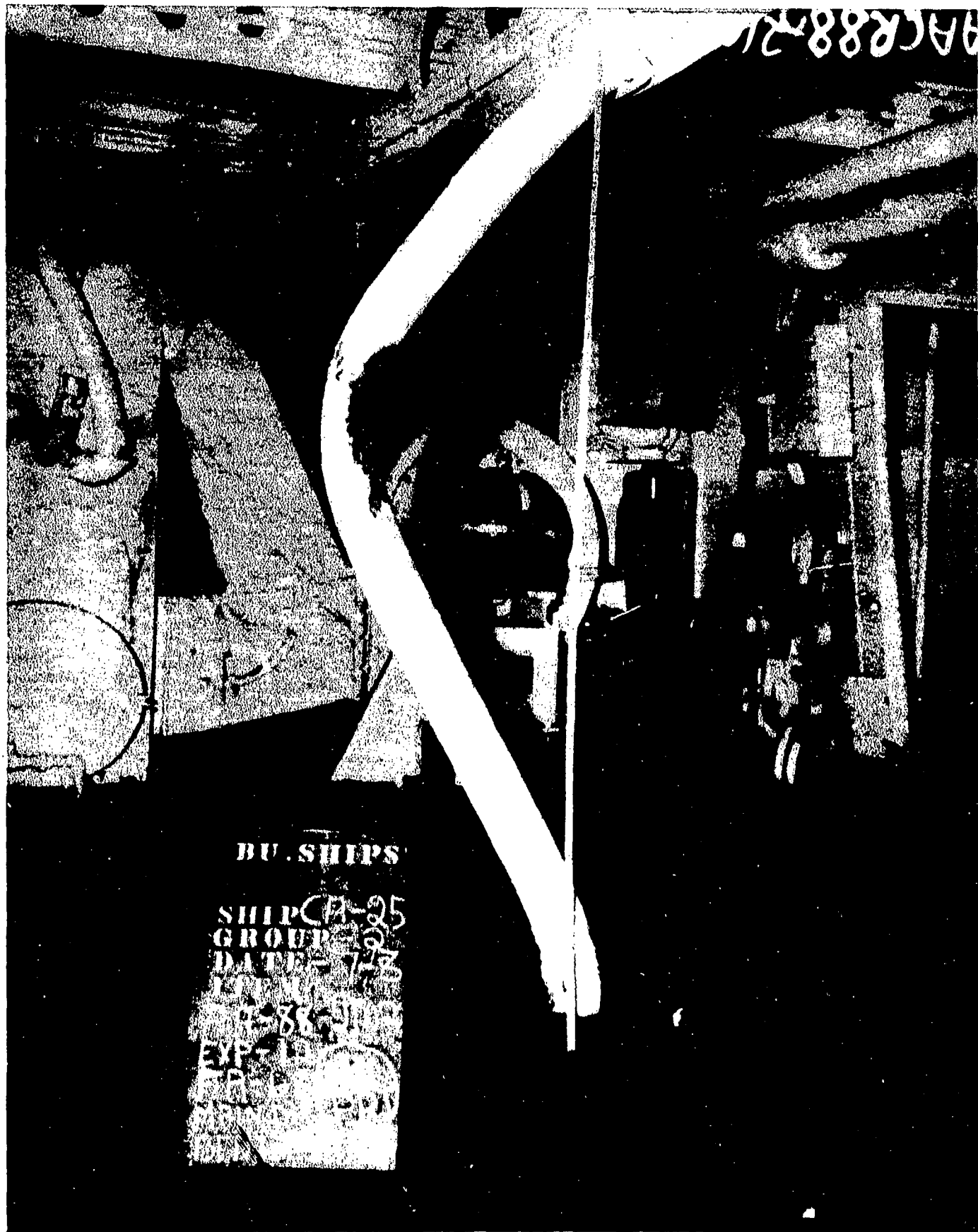
AA-CR-88-2098-3. C-201L. Looking aft at bent stanchion under main deck at frame 68, starboard.

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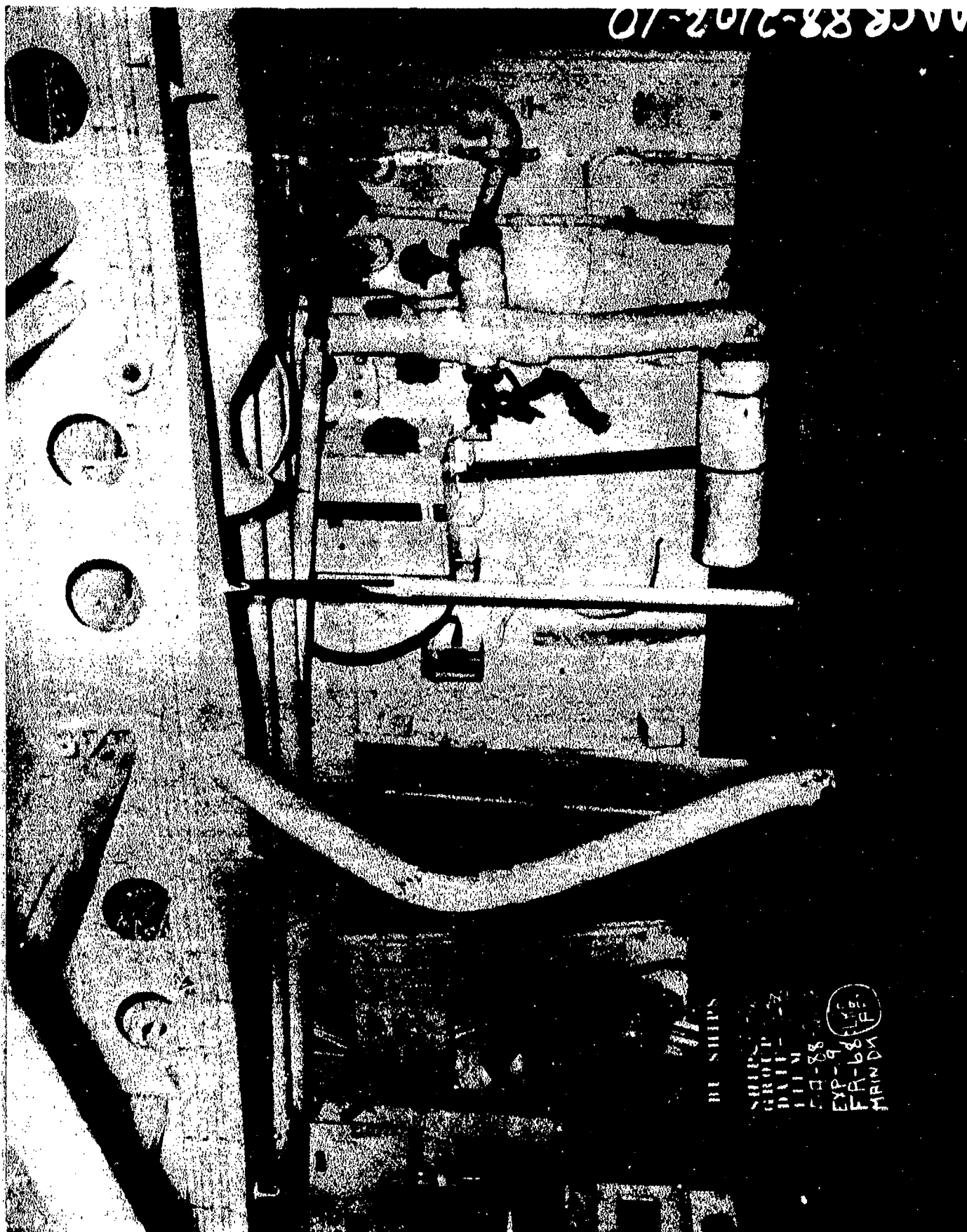


AA-CR-88-2102-12. C-201L. Looking to starboard at bent centerline stanchion under frame 68, port. Note damage to vent duct.

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AA-CR-88-2102-10. C-201L. Looking aft at bent stanchion, frame 68 centerline.

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AA-CR-88-2102-11. C-201-J. Looking to starboard at distortion of transverse frame 68 and supporting stanchion.

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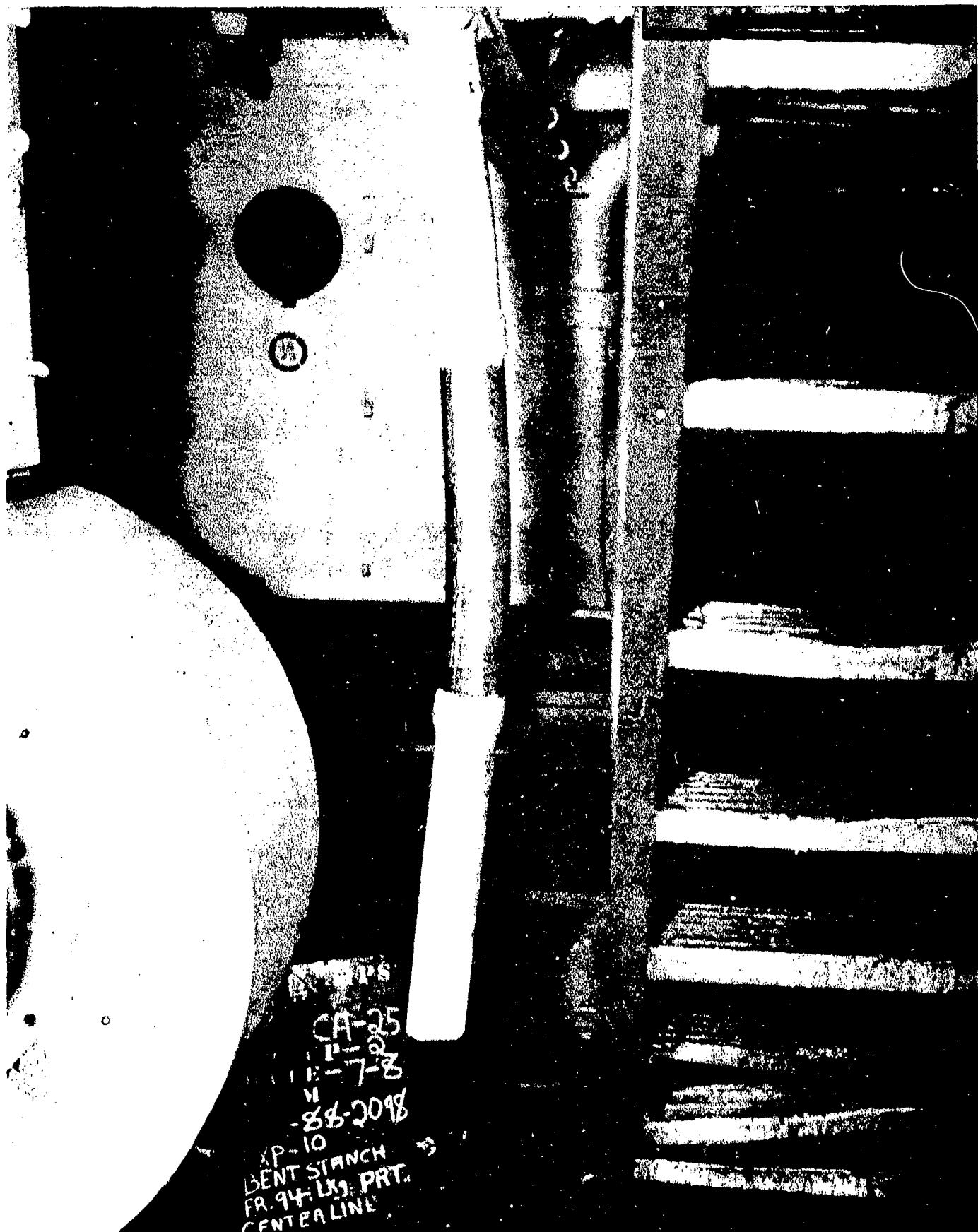
AA-CR-88-2098-7. C-202L. Looking aft at bent centerline stanchion, frame 94.

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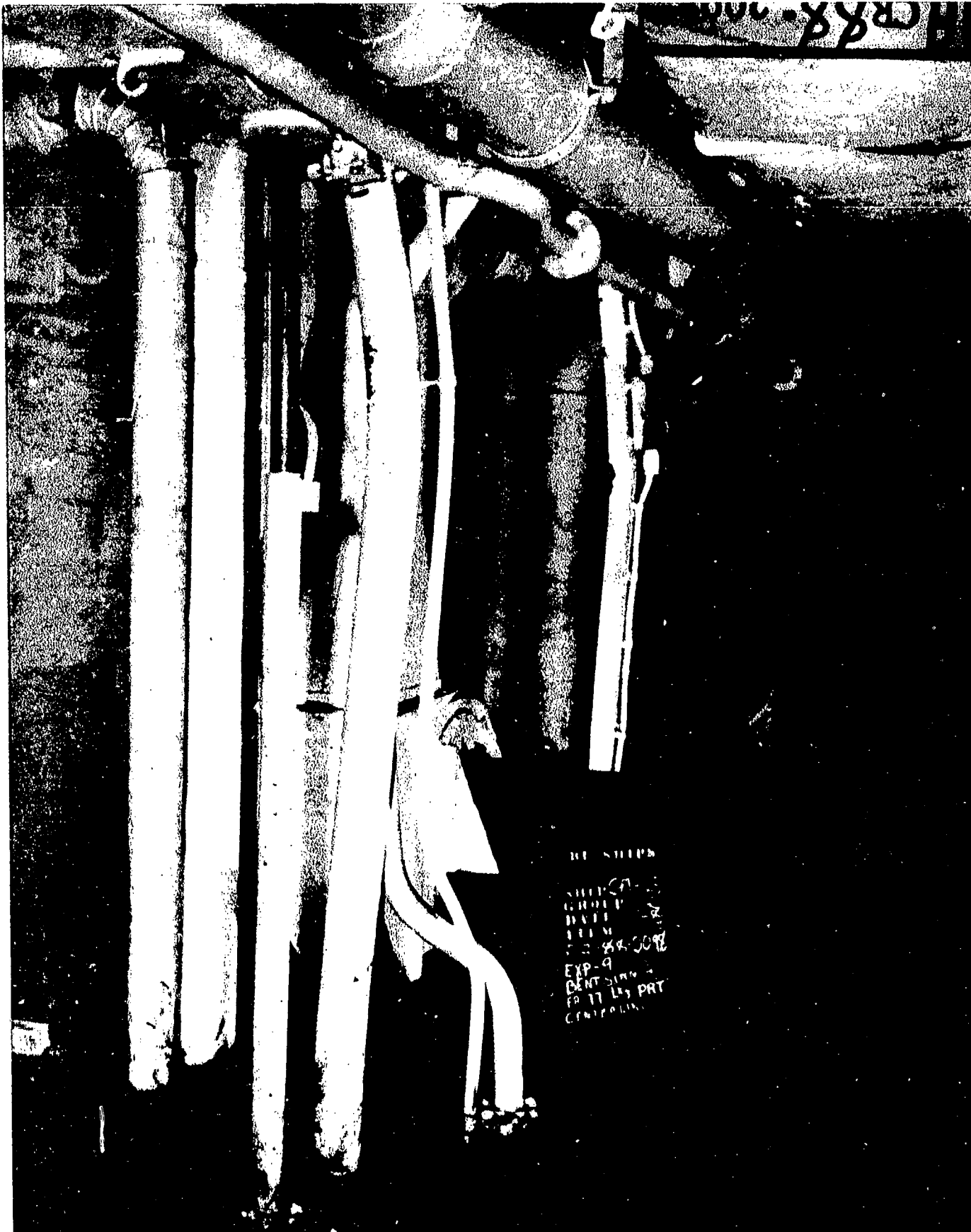
AA-CR-88-2098-10. C-202L. Looking to port at bent stanchion supporting main deck, 16 feet off centerline to port, frame 94.

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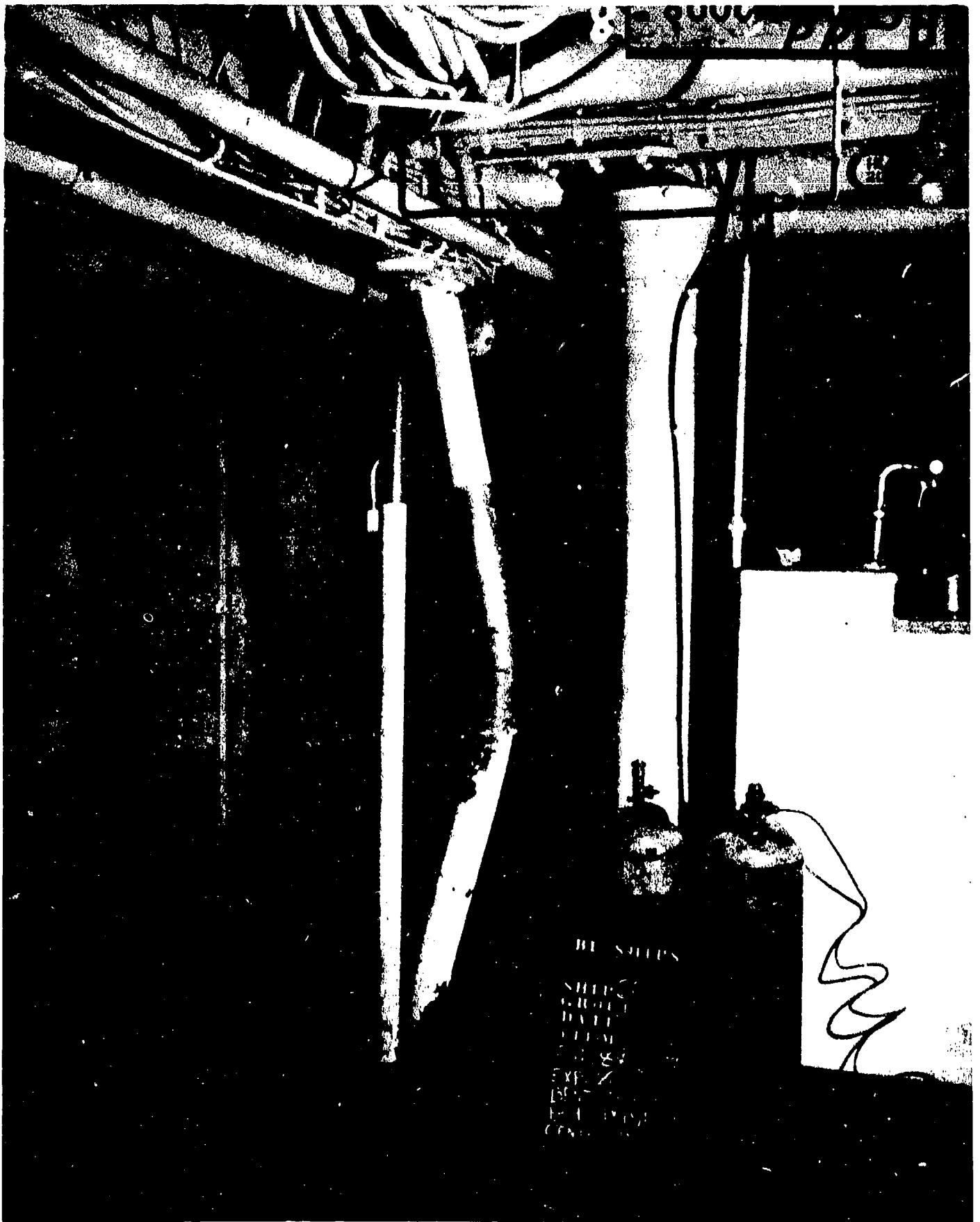


AA-CR-88-2098-9. C-202L. Looking to port at bent stanchions on centerline and 16 feet to port, frame 97.

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AA-CR-88-2098-8. C-202L. Looking outboard at bent stanchion, 16 feet off centerline to starboard, frame 97.

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AA-CR-88-2098-1. C-2011. Looking forward and to starboard at distortion of vent duct caused by deflection of transverse frame 68, starboard, under main deck.

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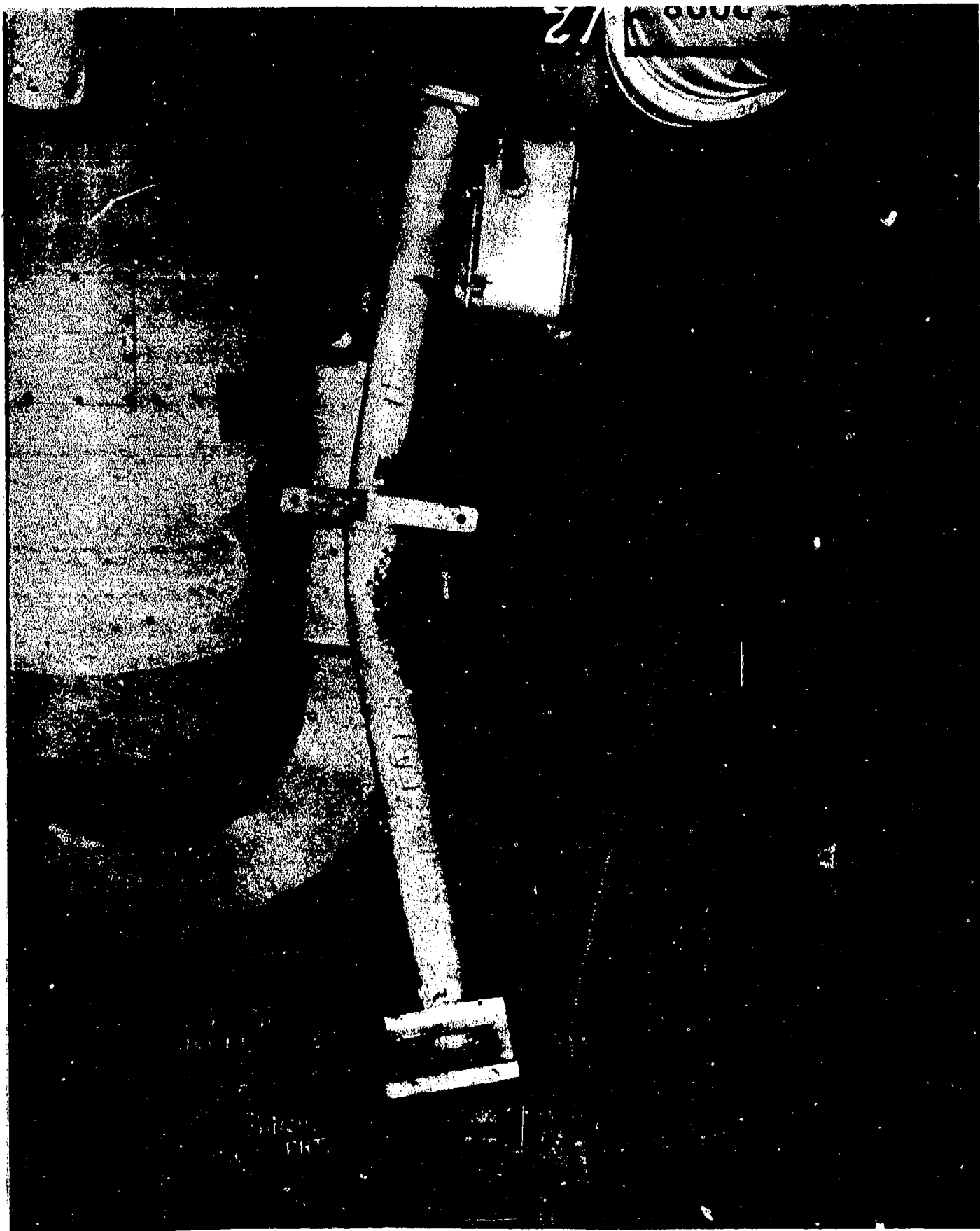
AA-CR-88-2085-1. D-203L. Looking to starboard at bent stanchion, frame 125 starboard, under deflected main deck.

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AA-CR-2098-12. D-203L. Looking to port at bent centerline stan-
chion supporting main deck at frame 125.

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AA-CR-88-2085-3. D-203L. Looking forward at bent stanchion, frame 125, port, under deflected main deck.

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AA-CR-92-1782-7. Failure of weld between transverse girder 135 and centerline longitudinal bracket under main deck.

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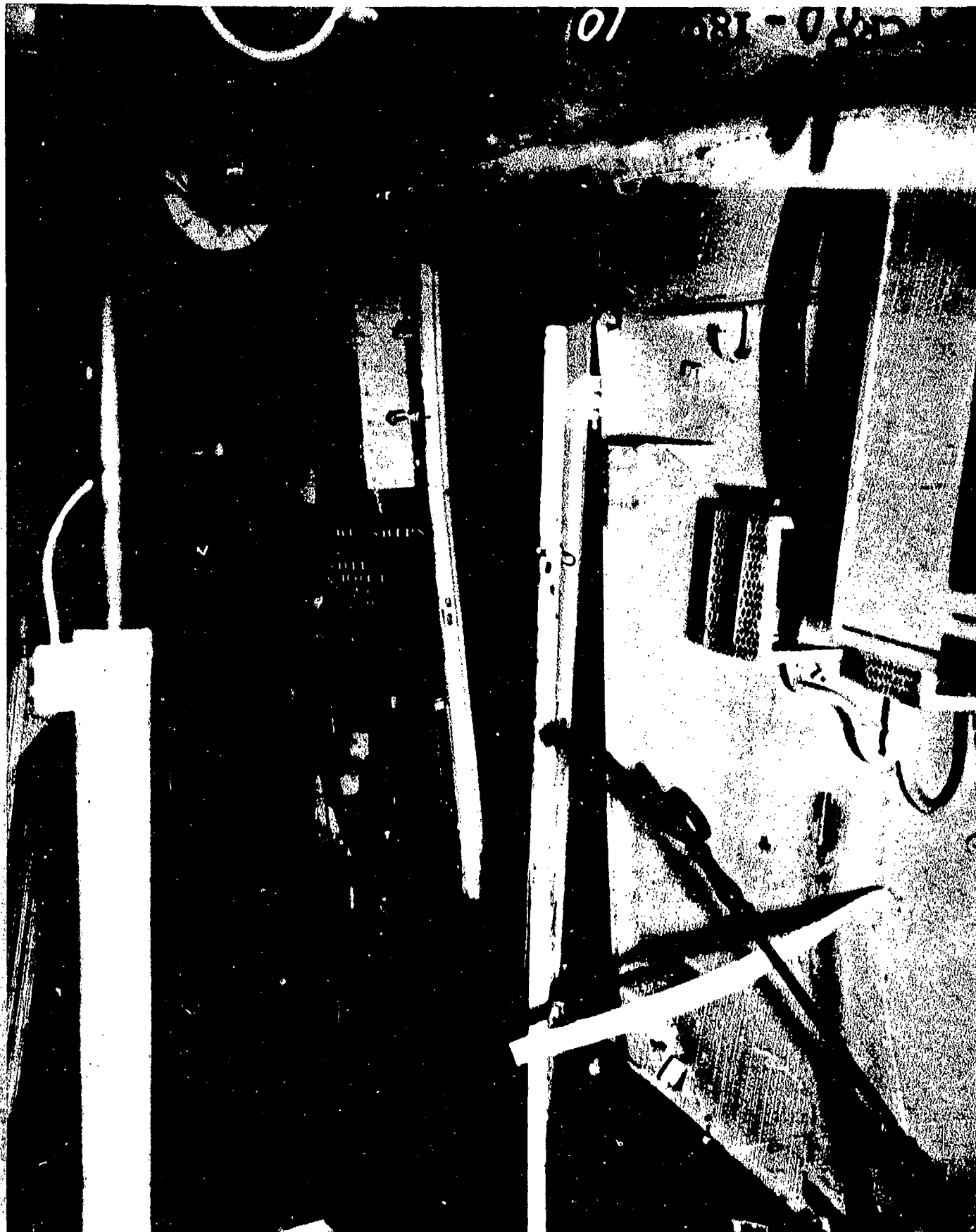
AA-CR-88-2085-7. D-204L. Looking forward and to port at deflected support system under main deck in vicinity of frame 137, port.

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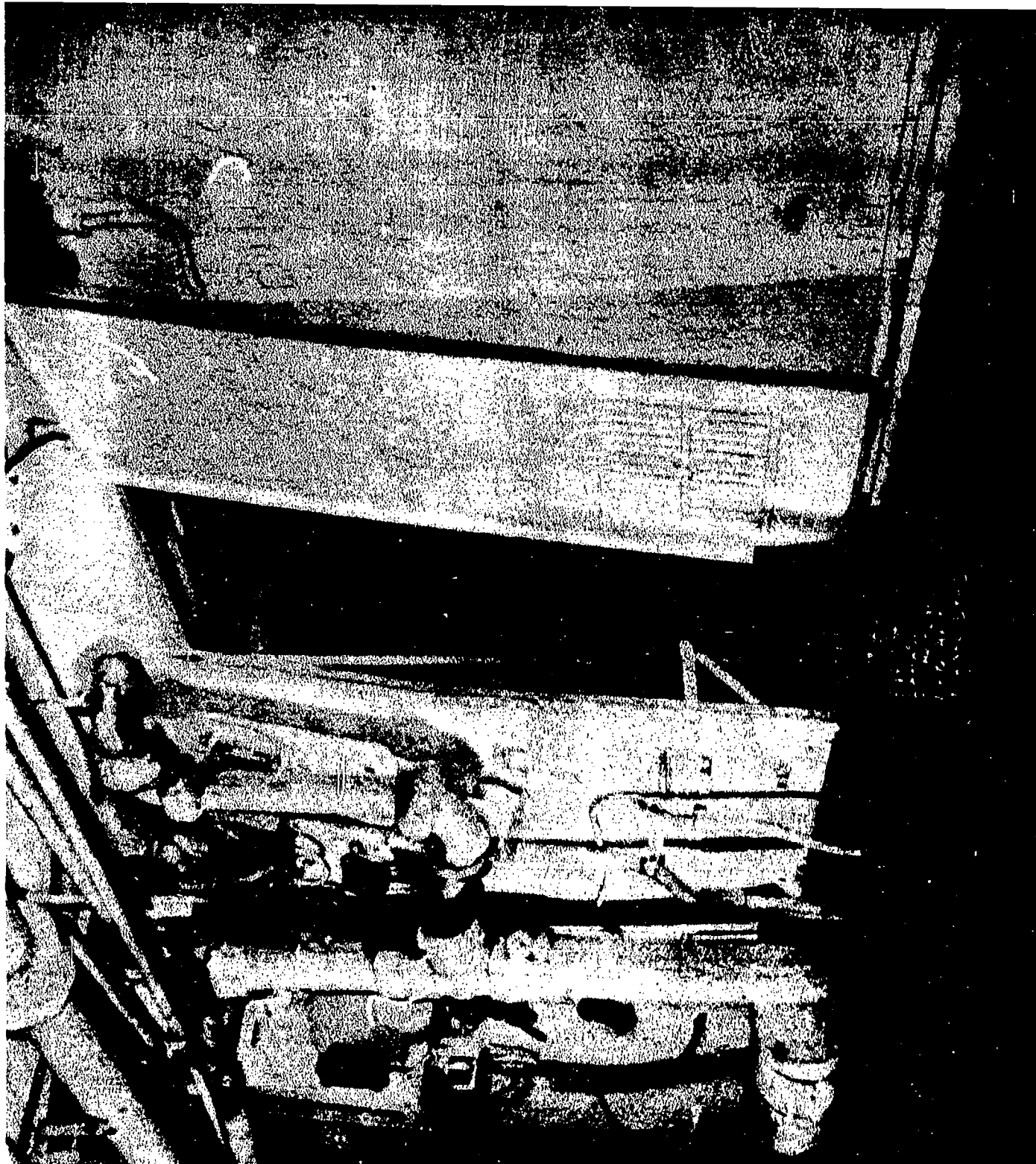
AA-CR-80-1894-10. C-201L. Looking aft and to starboard at distortion of joiner bulkhead 70, starboard, second deck, caused by deflection of main deck.

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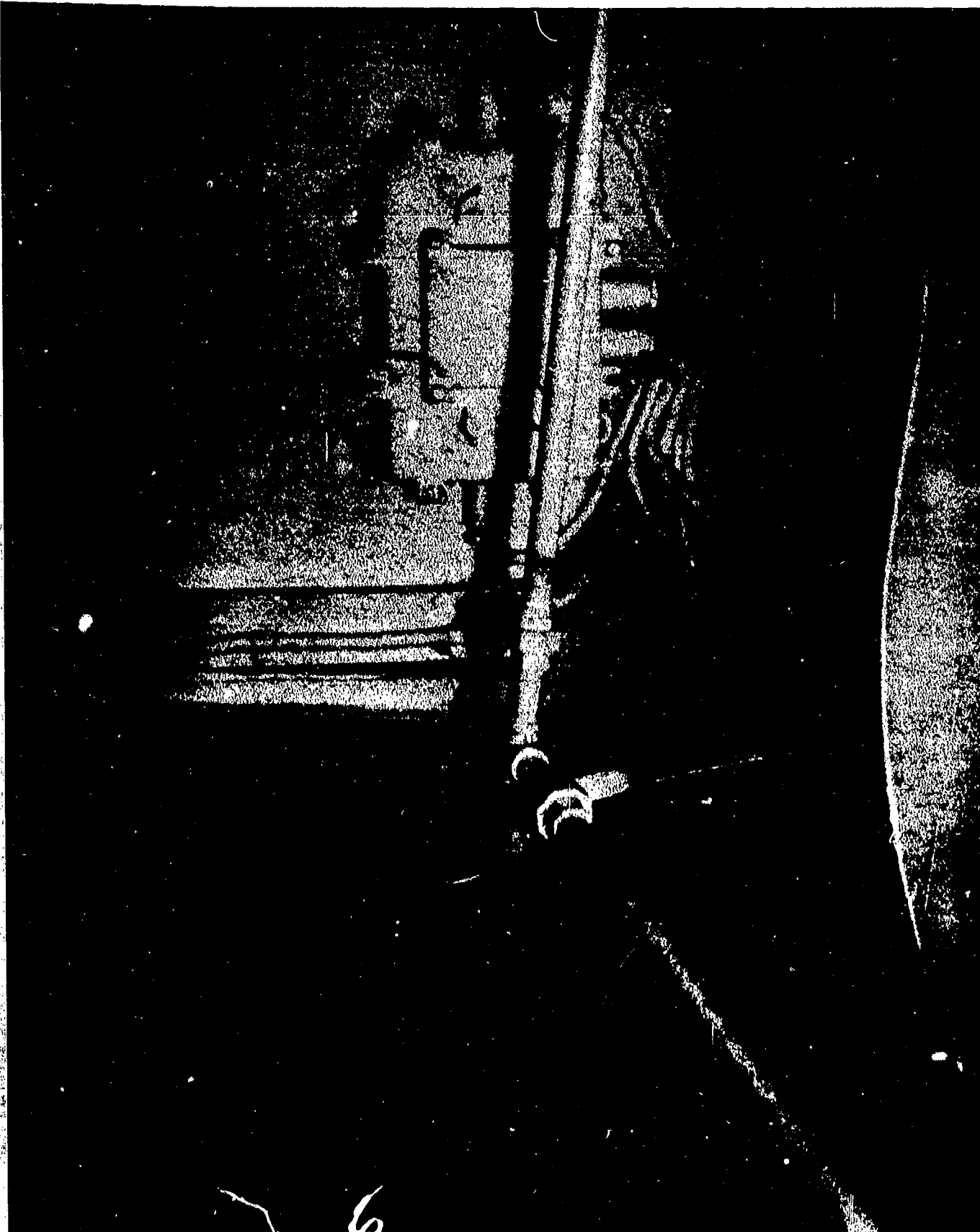


AA-CR-88-2098-4. C-201L. Looking aft and to starboard at damaged bulkhead 70, port.

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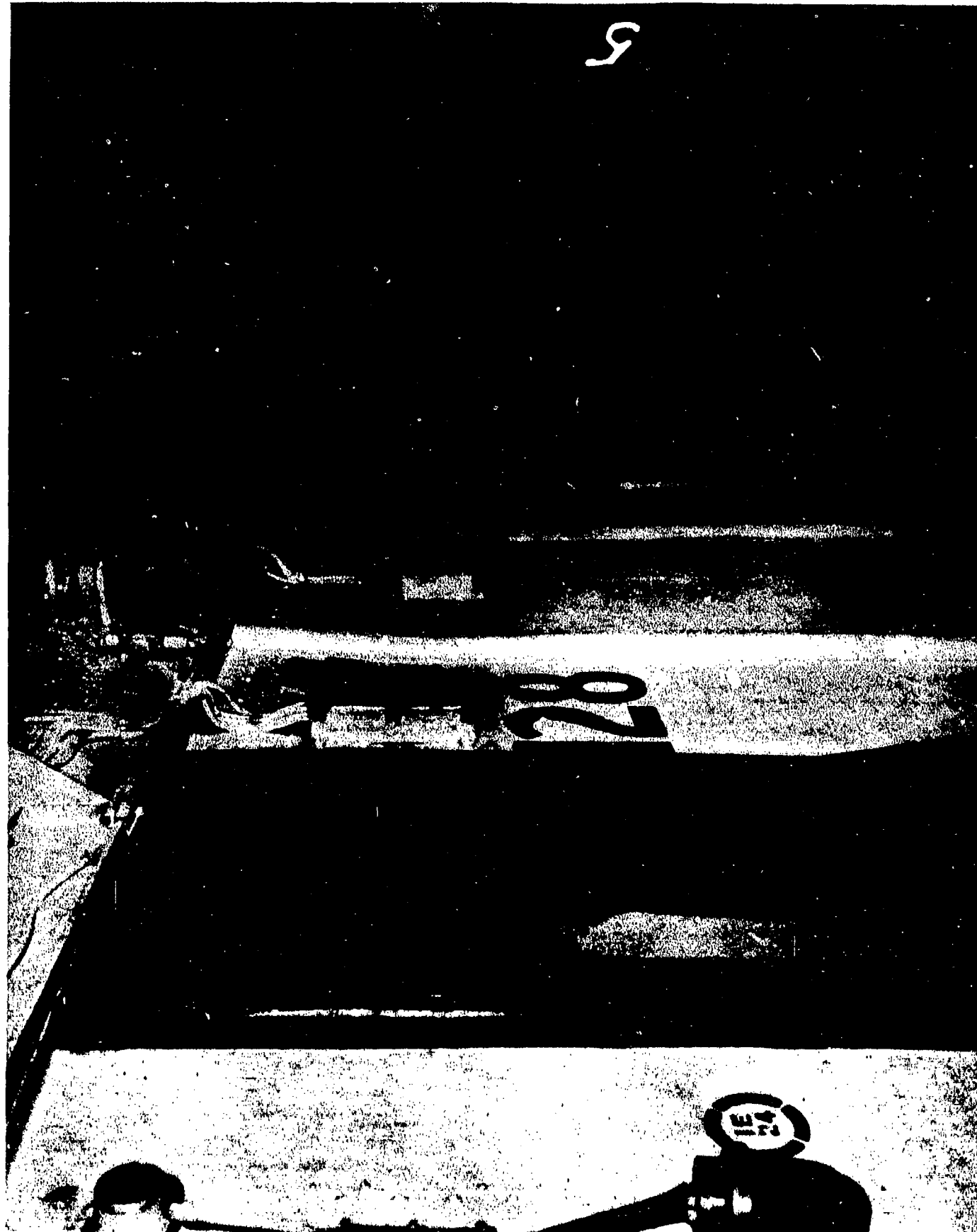
AA-CR-83-2098-6. Crews washroom, looking forward at after side of bulkhead 70, starboard, second deck showing distortion of bulkhead, fused switch panel and cable run on knuckle. Cables are displaced but not damaged.

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AA-CR-88-2085-5. D-203L. Looking to port at wrinkle in joiner bulk-head 128, starboard.

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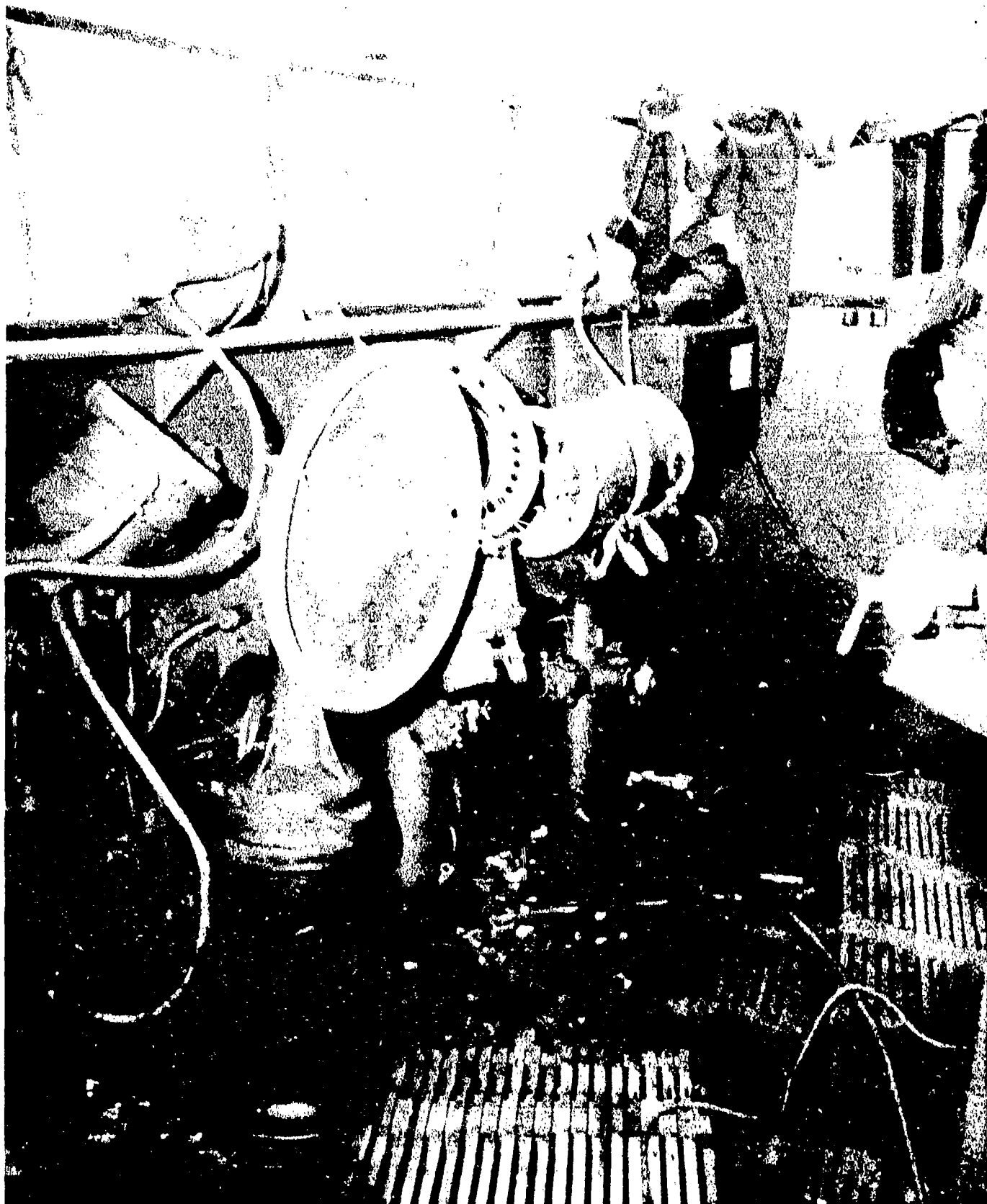


AA-CR-80-1894-9. C-201L. Vent duct crushed by deflected main deck girder, frame 68, starboard.

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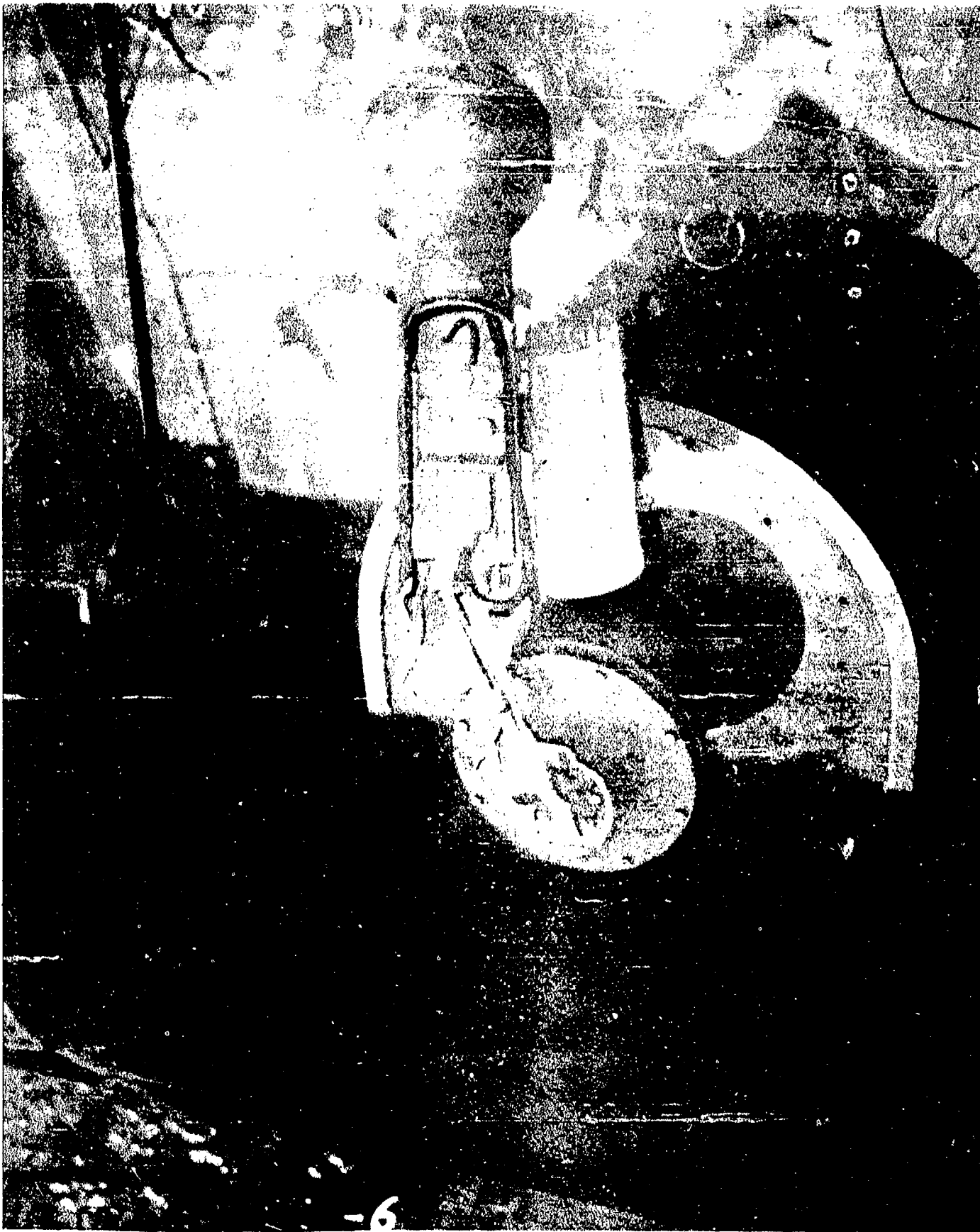
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AA-CR-65-1729-7. General view to starboard on forward end of navigation bridge. Gyro repeater, dislodged repeater, steering wheel, steering telegraph, engine order telegraph with broken glass, intercommunication unit in case, and damage to windshield.

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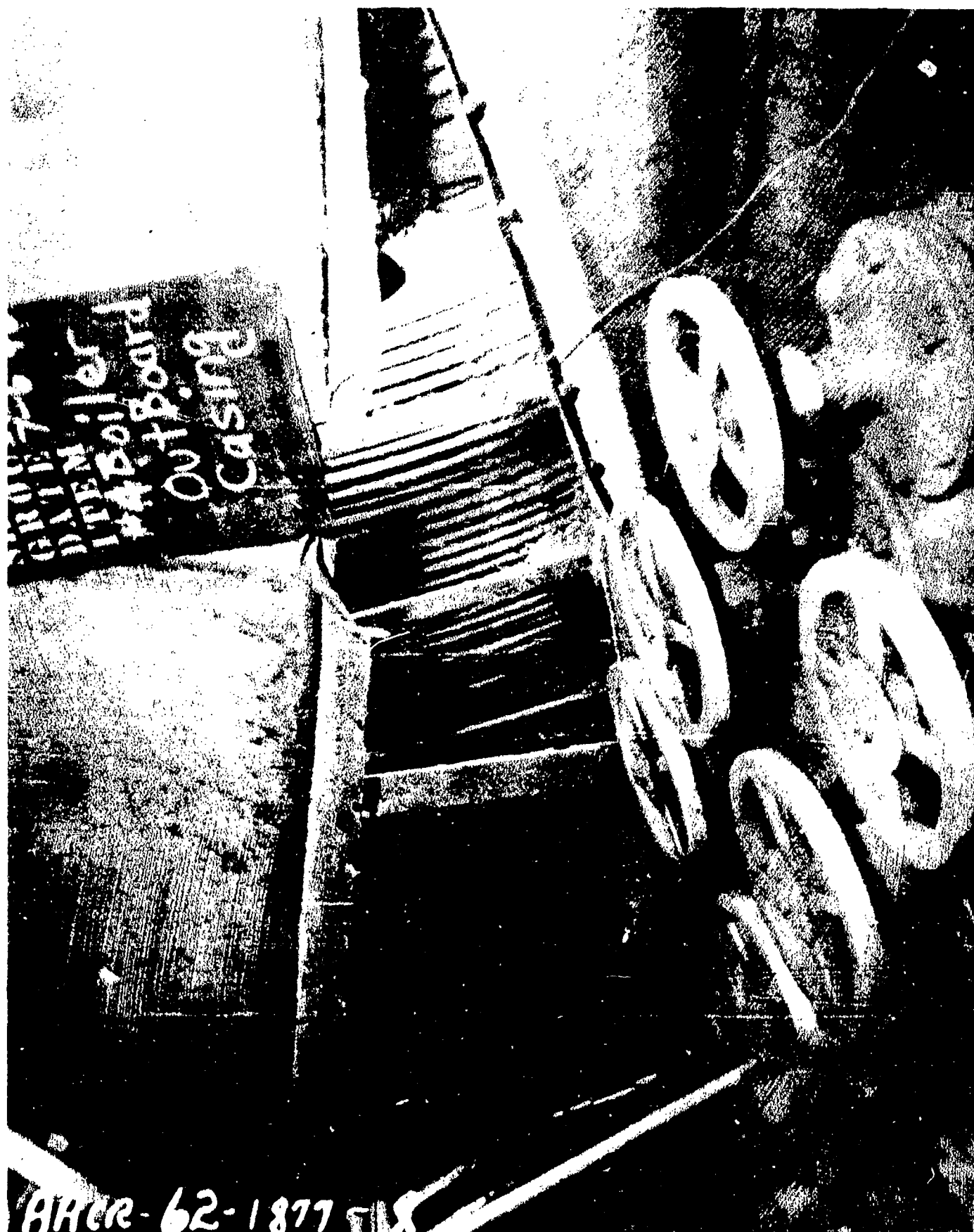
AA-CR-65-1729-6. Broken cast aluminum alidade column on port wing of the navigation bridge.

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AA-CR-62-1877-8. No. 4 boiler, outboard casing.

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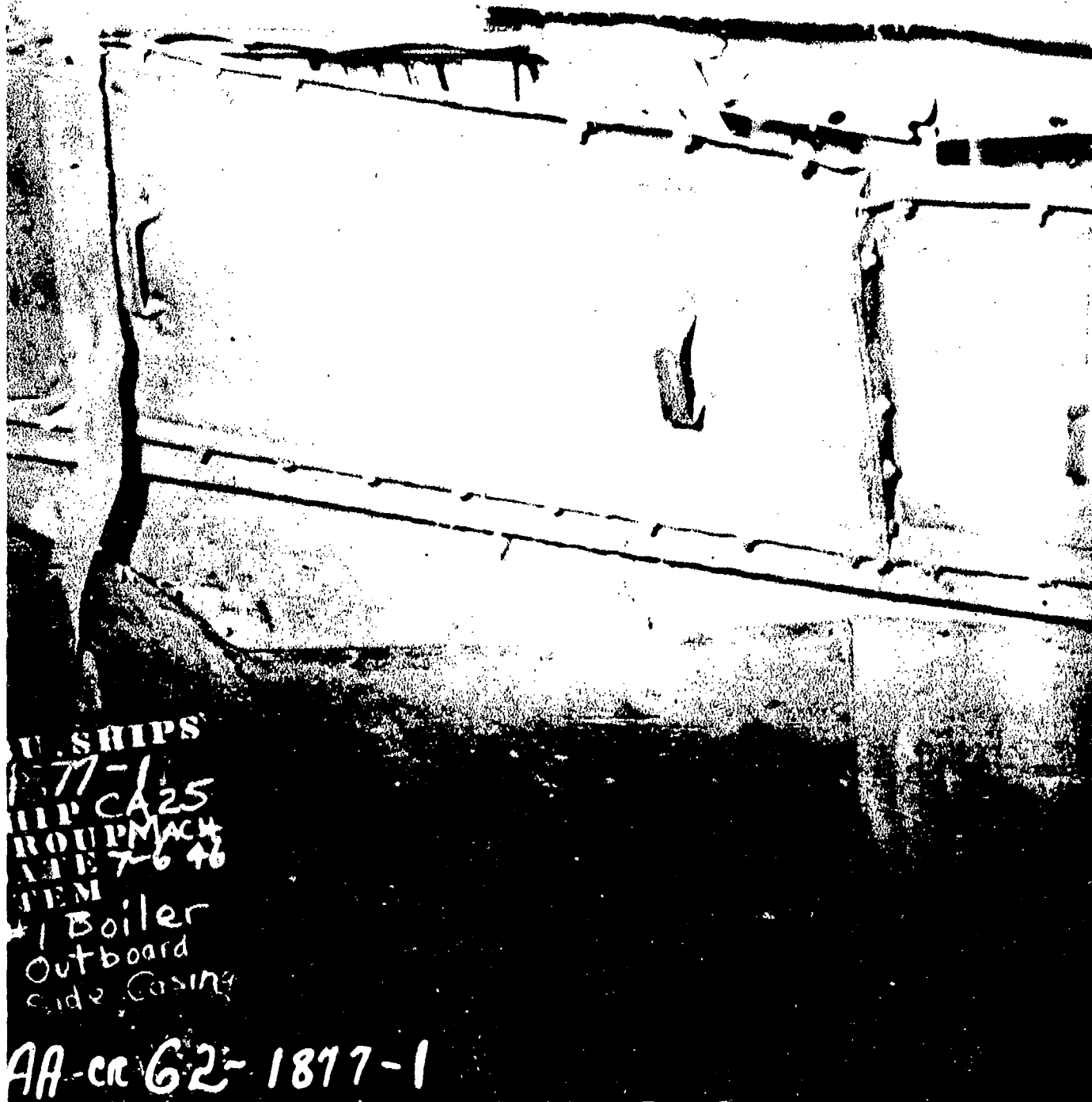
AA-CR-62-1876-12. No. 1 boiler, outboard side casing.

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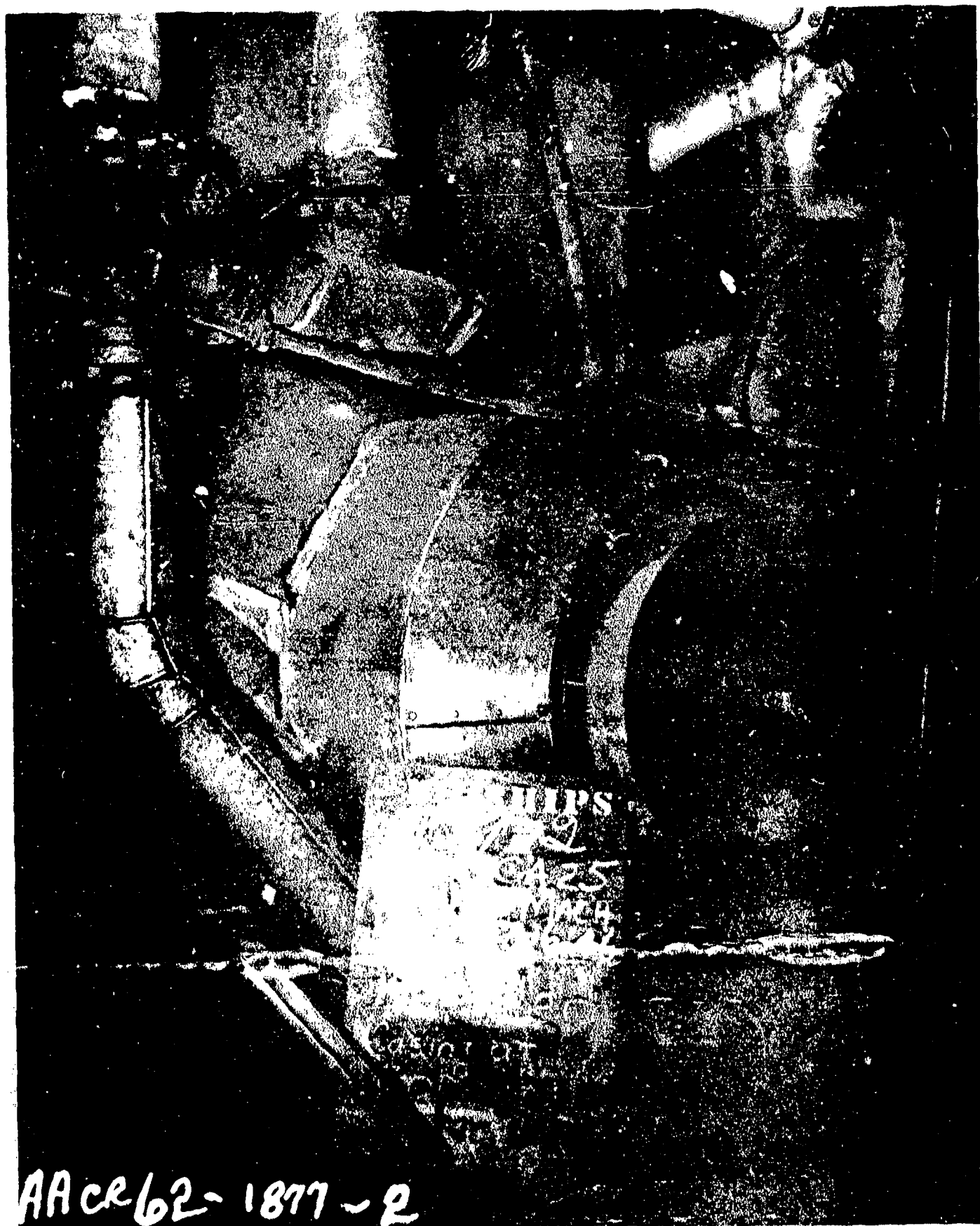
AA-CR-62-1877-1. No. 1 boiler, outboard side casing.

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AA-CR-62-1877-2. No. 1 boiler casing on front of boiler at inboard water drum.

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AA-CR-62-1877-3. No. 1 boiler casing at steam drum, outboard side, front.

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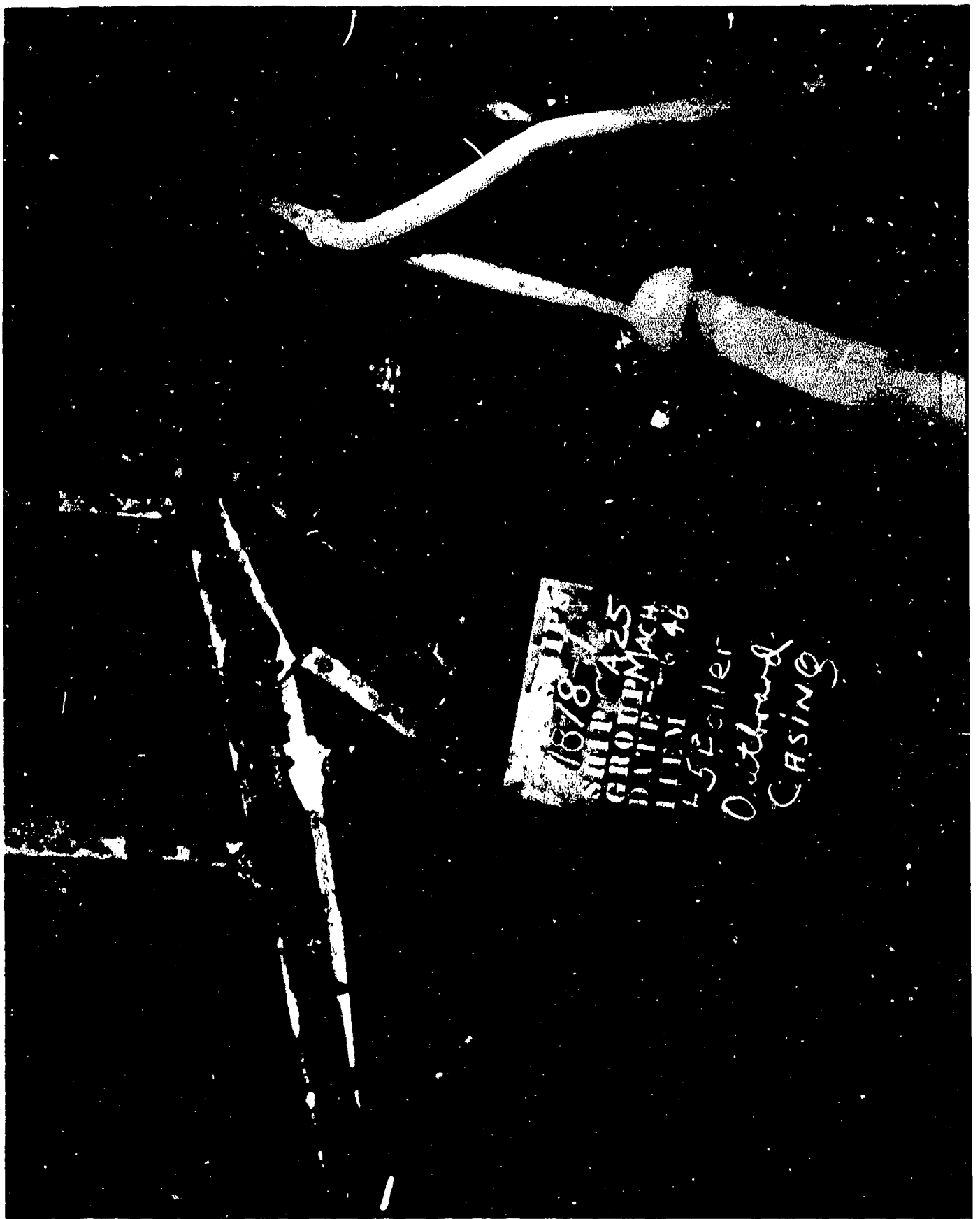
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AA-CR-62-1877-4. No. 1 boiler casing at steam drum, inboard side, front.

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AA-CR-62-1878-1. No. 5 boiler, outboard casing.

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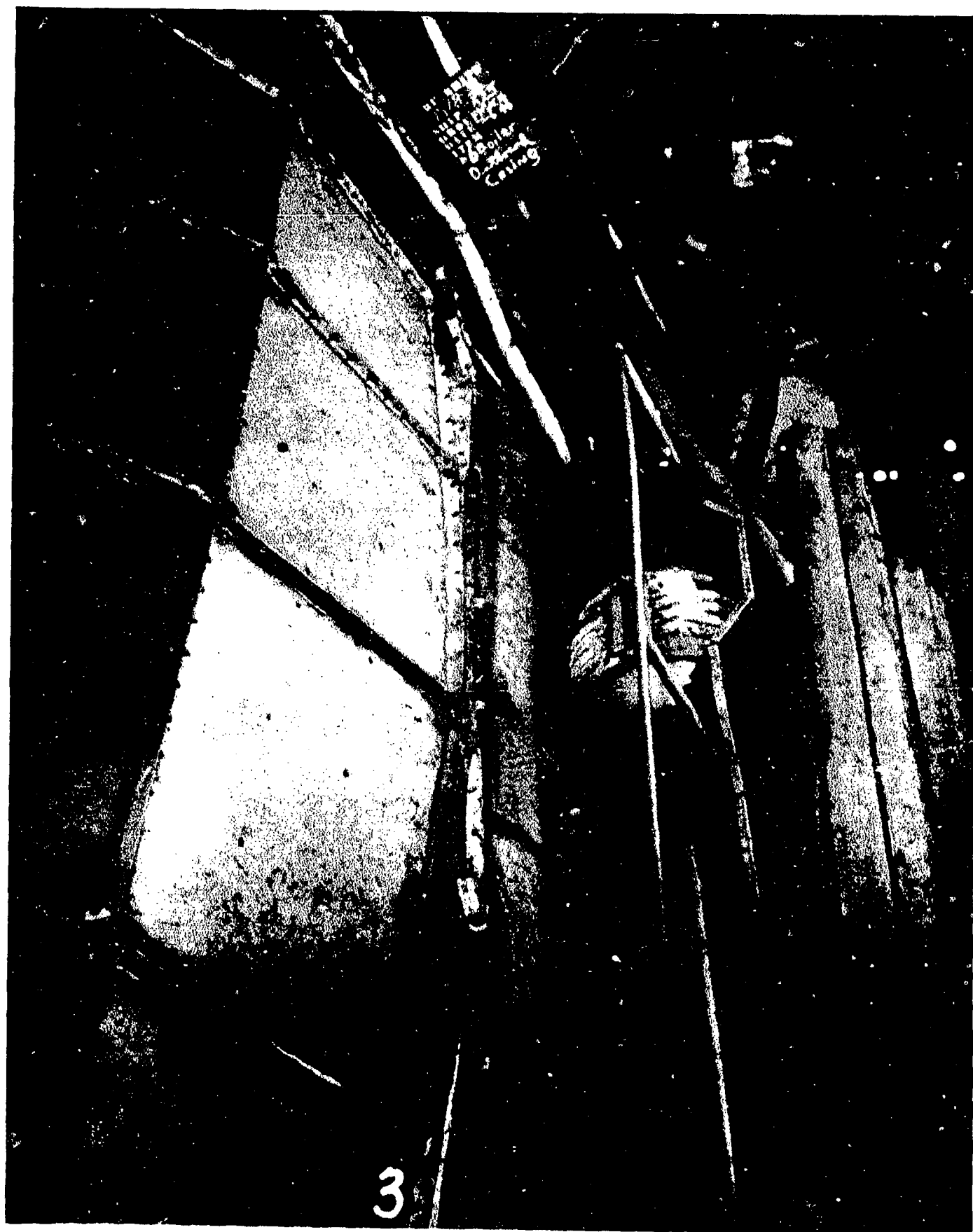
AA-CR-62-1878-2. No. 6 boiler, outboard casing.

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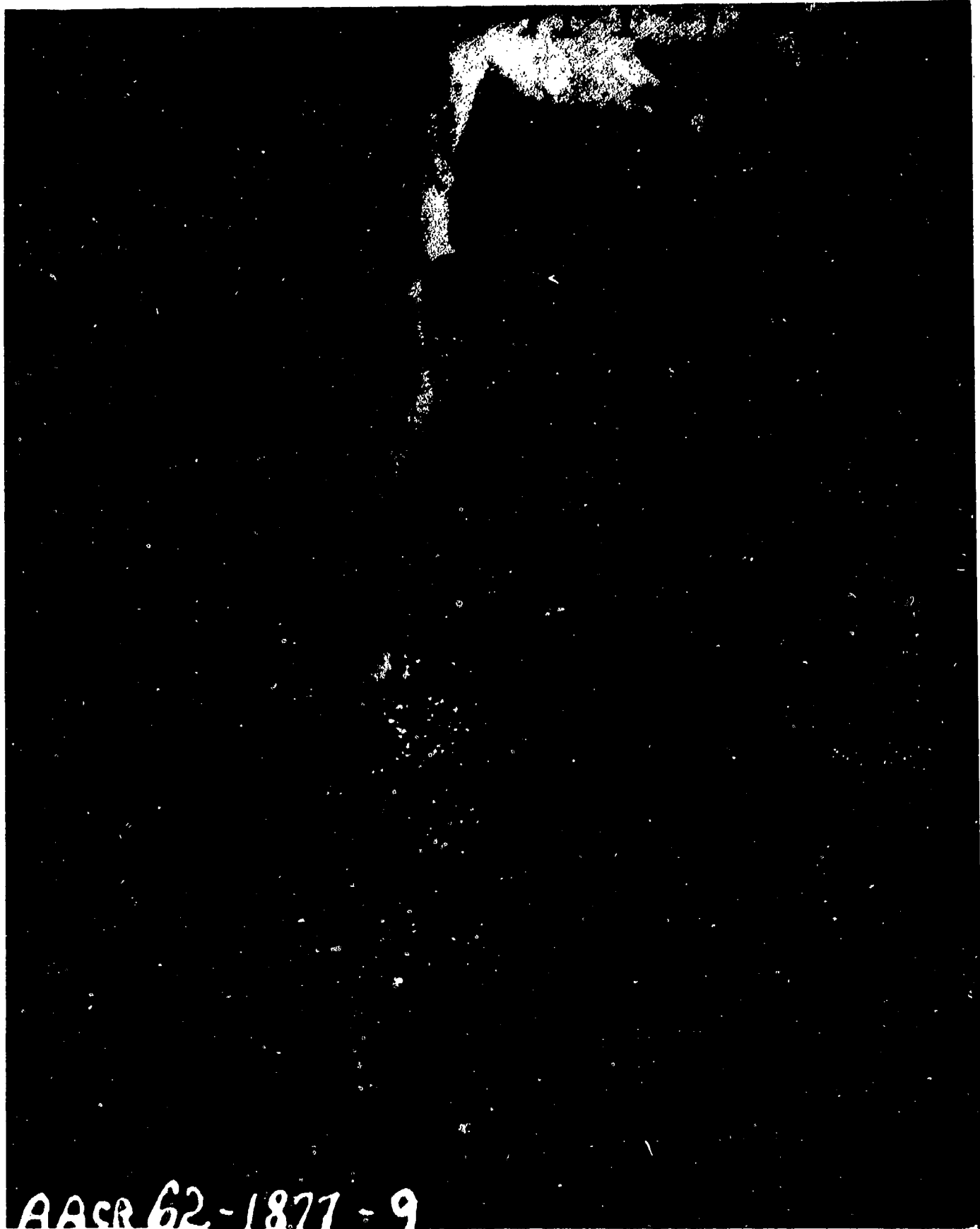
AA-CR-62-1878-3. No. 6 boiler, outboard casing.

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AA-CR-62-1877-9. No. 4 boiler, front wall near tubes.

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HHCR62-1877-10

HH-62-137-10 No. 4 boiler, front wall near tubes.

HH-62-137

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AA-CR-62-1877-11. View of upper uptake where forward stack carried away.

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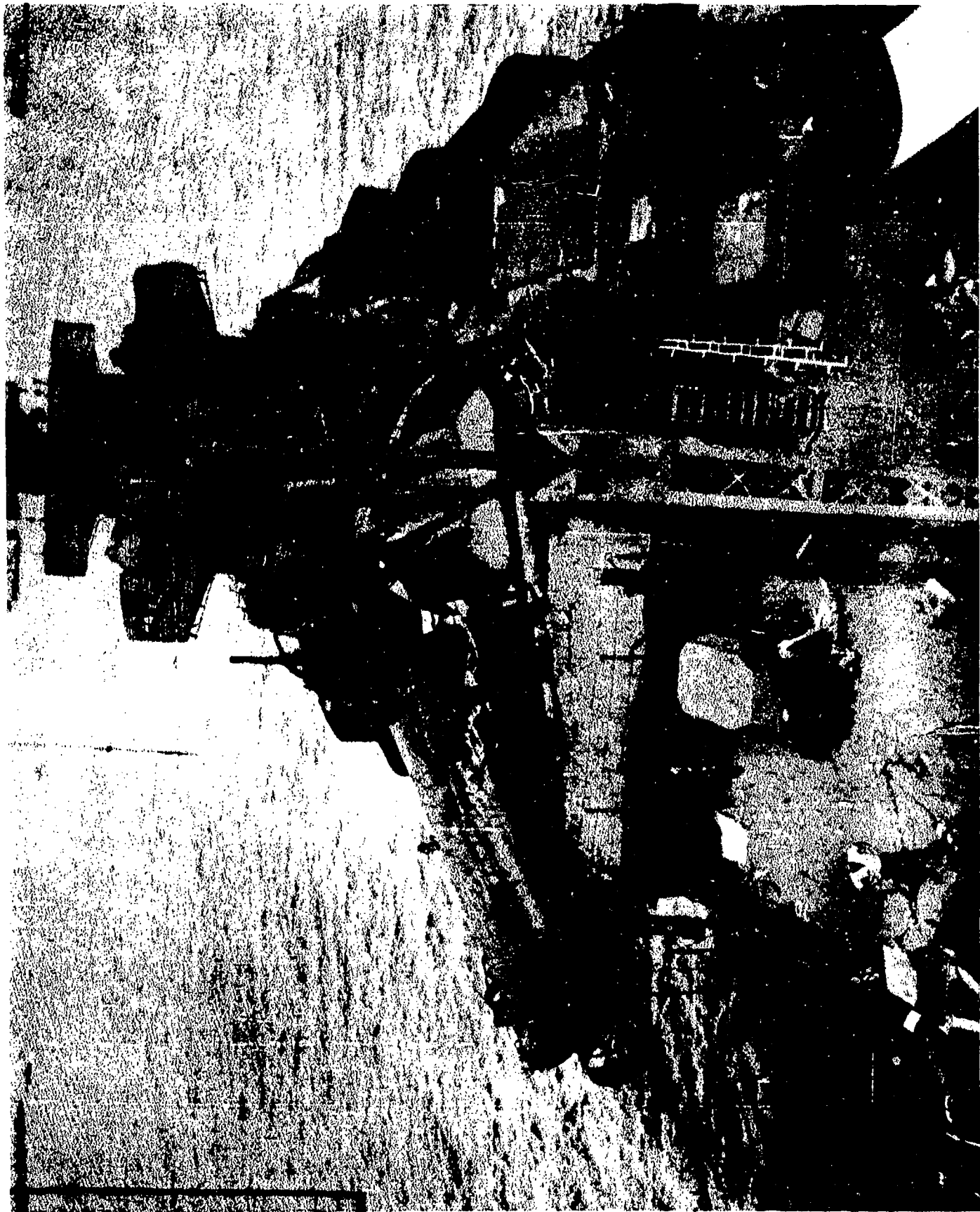
AA-CR-62-1877-12. View of upper uptake where forward stack carried away.

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AA-CR-65-1729-9. Looking aft from navigating bridge to after stack.

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AA-CR-62-1868-11. Looking at No. 2 stack against starboard leg of airplane boom tripod.

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CONFIDENTIAL



Defense Special Weapons Agency
6801 Telegraph Road
Alexandria, Virginia 22310-3398

TRC

4 April 1997

MEMORANDUM TO DEFENSE TECHNICAL INFORMATION CENTER
ATTN: OMI/Mr Bill Bush

SUBJECT: Declassification of Documents

The following is a list of documents that have been declassified and the distribution statement changed to Statement A, Approved for Public Release.

XRD-41, AD-366731-
XRD-42, AD-366732-
XRD-40, AD-366730-
XRD-39, AD-366729-
XRD-38, AD-366728-
XRD-34, AD-366720-
XRD-13, AD-366725-
XRD-8, AD-366699-
XRD-5, AD-366697-
XRD-6, AD-366698-
XRD-21, AD-366708-
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XRD-22, AD-366709-
XRD-26, AD-366713-
XRD-28, AD-366715-
XRD-29, AD-366727-
XRD-36, AD-366722-

If you have any questions, please call me at 703-325-1034.

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